INDUSTRIAL DIAMOND REVIEW

INDEX 1984 VOL. 44

Author Index	2
Miscellaneous Articles	2
Name Index	2
Trade Name and Company Index	5
Subject Index—Processes	7
Subject Index—Workpiece Materials	8
Subject Index—Miscellaneous	9

INDUSTRIAL DIAMOND REVIEW

VOLUME 44 1/84 to 6/84 Nos. 500 to 505

Key to page numbers:

No. 500 1/84 pp. 1-44
No. 501 2/84 pp. 71-96
No. 502 3/84 pp. 123-162
No. 503 4/84 pp. 187-218
No. 504 5/84 pp. 245-280
No. 505 6/84 pp. 307-340

AUTHOR INDEX

A

Aytacoglu, M. E. *see* **Heath, P.J. Aytacoglu, M. E.**

B

Bex, P.A., Shafto, G. R.
The influence of temperature and heating time on PCD performance, 128
Biffani, M.
A new window on nuclear research, 96
Brown, W. F. *see* **Bullen, G. J., Brown, W. F.**
Büttner, A., Picker M.
A new bandsaw for slabbing natural stone, 90
Büttner, H.
A breakthrough in grinding and polishing hard stone, 191
Bullen, G. J.
Hard rock drilling—some recent test results, 270
Bullen, G. J., Brown, W. F.
Drilling high tensile steel reinforced concrete, 11

C

Cai, O., Santoro, G.
Diorite cut by diamond wire, 280
Cooley, B. A., Wapler, H.
Surface finish when grinding with CBN abrasives, 147
Cooley, B. A. *see* **Juchem, H. O., Cooley, B. A.**
Cullingworth, B.
Raising the roof in Zimbabwe, 20
Cash dispenser installation made easy, 22
Medium-hard rocks are drilled faster with SYNDRILL, 86
SYNDITE boosts production, cuts costs, 127
Seven times cheaper with AMBORITE, 195
African marble gets the diamond treatment, 24

D

Daniel, P.
A unique development in gudgeon pins, 208
Better bits from Craelius, 278
Daniel, P. *see* **Szakács, G., Daniel, P.**
Doebeli, E.
A versatile production form grinding machine, 140
Dyer, L. D.
Recent advances in substrate sawing technology, 74

E

Ertingshausen, W. *see* **Tönshoff, H. K., Schmidt, N.**
Ertingshausen, W., Ostertag, A.

F

Fielding, E. R.
Optimum conditioned state for CBN wheels, 143
Fitton, P.W.
Machining hardfaced components—better economics are possible, 310
Ford, G. *see* **Wright, D. N., Ford, G.**

H

Hart, J. M.
Helix head grinds 28,000 m² of concrete floors, 157
Heath, P. J., Aytacoglu, M. E.
Edge preparation of SYNDITE PCD and parameters, 133
Herbert, S.
A cautious approach pays off, 1
Fine grain SYNDITE opens up the PCD range, 24
A new approach to I.D. grinding, 30
British expertise at heart of new international Observatory, 71
The polycarb story could have a happy ending, 77
Timesaving bonus in continuous path jig grinding, 123
Shorter opening hours on Bridge 14, 152
Wood products latch on to PCD, 159
Irish lead crystal—product of Wales!, 196
A granite machining challenge answered, 199
The diamond knife—rather more than meets the eye, 249
Go-it-alone concrete surgery, 257
New potential in the heavy machine shop, 307
Flush cutting bonus, 324
Holzmann, G., Weisner, Ch.
Mirrors with decoratively ground edges, 187

J

Ji-Myung, Kim
Korean auto parts machined with AMBORITE, 88
Juchem, H. O.
Honing with diamond and CBN abrasives, 209
Juchem, H. O., Cooley, B.A.
Creep feed grinding— a review, 313

K

König, W., Schleich, H., Yegenoglu, K., Stuckenholz, B.
High performance grinding with electroplated CBN wheels, 320
Kosick, M.
Pavement ramping—a better method, 158

L

Landvatter, K.
Sawing asphalt using lightweight machines, 17
Lavrinenko, I. A. *see* **Naidich, Yu. V., Umanskii, V.P., Lavrinenko, I. A.**

M

Maestre, J.
Seals and cameos made in Spain, 276

N

Naidich, Yu. V., Umanskii, V.P., Lavrinenko, I. A.
Metal and alloy bond strengths to diamond, 327
Nicolls, M. O.
Machining Ni-Hard augers with AMBORITE, 28

O

Ostertag, A. *see* **Tönshoff, H. K., Schmidt, N., Ertingshausen, W., Ostertag, A.**
Ottevanger, G.
Boring sintered carbide rolls with SYNDITE PCD tools, 154

P

Pacini, E.
A proposal for increased productivity in stone surfacing, 254
Picker, M. *see* **Büttner, A., Picker, M.**

S

Santoro, G. *see* **Cai, O., Santoro, G.**
Schleich, H. *see* **König, W., Schleich, H., Yegenoglu, K., Stuckenholz, B.**
Schmidt, N. *see* **Tönshoff, H. K., Schmidt, N., Ertingshausen, W., Ostertag, A.**
Schulz, H.
Machining 'composite metals' with SYNDITE PCD, 263
Shafto, G. R. *see* **Bex, P. A., Shafto, G. R.**
Stephens, C.
Peacock butterflies, with a little help from Cedar Rapids, 80
Stokes, R. J., Valentine, T. J.
Wear mechanisms of ABN abrasive, 34
Stuckenholz, B. *see* **König, W., Schleich, H., Yegenoglu, K., Stuckenholz, B.**
Szakács, G., Daniel P.
Concrete machining by VASKUT in Hungary, 202

T

Thoreau, B.
Diamond impregnated wire for sawing hard, abrasive stones, 94
Tönshoff, H. K., Schmidt, N., Ertingshausen, W., Ostertag, A.
A new machine concept for deep sawing concrete, 4

U

Umanskii, V. P. *see* **Naidich, Yu. V., Umanskii, V. P., Lavrinenko, I. A.**

V

Valentine, T. J. *see* **Stokes, R. J., Valentine, T. J.**

W

Wapler, H. *see* **Cooley, B. A., Wapler, H.**
Weisner, Ch. *see* **Holzmann, G., Weisner, Ch.**
Wilks, E. M., Wilks, J.
The abrasion resistance of brown diamonds, 82
Wilks, J. *see* **Wilks, E. M., Wilks, J.**
Wright, D. N., Ford, G.
Truing and dressing of diamond saw blades, 266

Y

Yegenoglu, K. *see* **König, W., Schleich, H., Yegenoglu, K., Stuckenholz, B.**

MISCELLANEOUS ARTICLES

Book review, 333
Diamant Boart completes UK presence, 23
The Drilling and Sawing Association, 151
ICSHM2 held in Greece, 332
Roll turning using SYNDITE and AMBORITE tools, 334
25th Anniversary of De Beers diamond synthesis, 326

NAME INDEX

A

ASI *see* **American Standards Institute**
Aachen Technische Hochschule, 319
Academy of Fine Arts, Prague University, 80
Academy of Sciences of the Ukrainian SSR, Institute for Problems of Materials Science, 327
Advanced Technology Committee, Industrial Diamond Association of America, news p, 5/84
Alcock, Bob, contents pp, 1/84, 3/84, 5/84
Allison, P., news p, 5/84
Almond, E. A., 332
Althaus, P. G., 147, 150
American Concrete Pavement Association, news p, 3/84
American Standards Institute, news p, 5/84
Ando, S., news p, 5/84
Aston University, Birmingham, Department of Mechanical & Production Engineering, 143
Aytacoglu, M. E., 133, 308

B

Bailey, M. W., 16, 269, 275
Balch, C., news p, 3/84, 250, 253
Balfour, A. M., 150, 319
Ball, G., news p, 3/84
Bank of Korea, 88
Barnard, J., 146
Barrett, C., news p, 6/84
Barrett, L., 126
Bateson, B., 262
Bath University, 324
Battacharyya, S. K., 146
Battelle Memorial Institute, news p, 5/84
Baumann, M., news p, 5/84
Bayne, D. M., news p, 6/84
Beitz, M., 150
Bellenger, M., news p, 6/84
Bennington, S., 151
Bertrand, R., news p, 5/84
Bex, P. A., 128, 132, 340
Bienert, P., 10
Bieri, H. A., 16
Biffani, M., 96
Bishop, N., 201
Bizal, A., news p, 1/84
Böss, D., contents p, 5/84, 276, 277
Böttler, E., 150
Bcrse, D., 44
Bossler, J., 158
Bradley, D., 151
Bragg, W. H., 333
Bragg, W. L., 333
Brandin, H., 319
Brandin, M., 319
Breen, P., 86, 87
Bristol University,
Department of Mechanical Engineering, 146
International Conference on Creep Feed Grinding, 319
British Drilling Association, news p, 5/84
British Industrial & Scientific Film Association, news p, 5/84
British Standards Institution, news p, 3/84, 4/84, 5/84
Bromsgrove General Hospital, contents p, 5/84, 252, 253
Brown, D., 72, 73
Brown, E. T. S., 326
Brown, W. F., 11
Bruschek, D. K., news p, 6/84
Bruton, E., contents p, 6/84, 333
Budapest Cultural Centre, 206
Büttner, A., 10, 90
Büttner, H., 191
Bullen, G. J., 11, 16, 270, 275
Bullock, A., contents p, 4/84
Busch, D. M., 16
Byrne, P., news p, 4/84

C

Cai, O., 280
California University, Department of Physics, 332
Cantrell, J., news p, 2/84
Carrara Fair, news p, 5/84
Castrillo, Marquis of, 227
Charles Prince of Wales, news p, 3/84
Chen, C. P., 76
Chistyakov, Ye. M., 331
Chuvashov, Yu. N., 331
Clarendon Laboratory, Oxford University, 82
Clark jun., S. P., 132
Clausthal University, 275
Clegg, R., 311
Coakley, F., 196, 197, 198
Cohen, M. L., 332
Collin, W. D., 16
Colton, P., 160
Concrete Sawing & Drilling Association, news p, 3/84, 16
Cooley, B. A., 33, 44, 124, 126, 147, 150, 313, 319
Cullingworth, B., 20, 22, 86, 127, 195, 245
Custers, J. F. H., 326

D

DASA *see* **Drilling & Sawing Association**
DHSS *see* **Department of Health & Social Security**
DWMI *see* **Diamond Wheel Manufacturers' Institute**
DWMI 4th International Technical Conference, 16
DRL *see* **De Beers Diamond Research Laboratory**
Damlos, H. H., 319
Daniel, P., 156, 202, 208, 277, 278
Davies, G., contents p, 6/84, 132, 333
Davis, C. E., news p, 1/84
Dawson, P. J., news p, 3/84
De Beers Diamond Research Laboratory, news pp, 3/84, 4/84, 5/84, 6/84, 24, 30, 128, 326
Dederichs, M., 319
Department of Health & Social Security (DHSS), news p, 3/84
Department of Mechanical & Production Engineering, University of Aston, Birmingham, 143
Department of Mechanical Engineering, University of Bristol, 146
Department of Physics, University of California, 332
Department of Special Materials, VASKUT-Research Institute for Ferrous Metallurgy, 202, 203, 204, 205, 206, 207
Design Council, 249
DeViling III, F. A., news p, 3/84
Diamond Producers Association, The, news p, 2/84
Diamond Research Laboratory *see* **De Beers Diamond Research Laboratory**
Diamond Wheels Manufacturers' Institute (DWMI), 319
4th International Technical Conference on Diamond, 16
Dijkstra, W., 245, 247
Doebeli, E., 140
Drilling & Sawing Association (DASA), news p, 4/84, 151
Dumas, K., 76
Dyer, H. B., 326
Dyer, L., 76
Dyer, L. D., 74

E

EEC *see* **European Economic Community (EEC)**
Edinburgh, Philip, Duke of, news p, 3/84, 249, 250
Egan, T., news p, 2/84
Ertingshausen, W., 4
European Economic Community (EEC), 332
Evans, T., 132
Evens, D., 331

F

FDA *see* **Federal Drug Agency**
FEPA, 91, 188, 193
Fachverband Beton Bohren und Sägen, news p, 5/84
Federal Drug Agency (FDA), 252
Fédération des Industries Mécaniques et Transformatrices des Métaux, news p, 6/84
Fersham, A. E., 333
Fielding, E. R., 143, 146
Financial Times, news p, 2/84
First International Technical Conference, Industrial Diamond Association of America Inc, news p, 5/84
Fitton, P. W., 310
Fletcher, J. B., 312
Flores, G., 218
Flowers, J., 126
Fowlie, D. S., news p, 6/84
Ford, G., 266
Foulds, L. E., 146
Fox, J. J., 333
Frankfurt Airport, 18
Freund, D. G., 16
Frigo, A., news p, 6/84
Frost, M., 146

G

Gemmologist, news p, 1/84
Geological Society of America, 132
Gerhäuser, W., 90, 93
Gettelmann, K., 218
Gibbon, J., 162
Goldschmidt, V., 333
Goldsmiths Journal, news p, 1/84
Gray, G., 22
Grazen, A. E., 319
Grodzinski, P., news p, 1/84, 276, 277
Grogan, K., 33
Groves, M., 151

H

Haag, R., 16
Haasis, G., 218
Hadleigh, M., 162
Hagemann, J., 16
Halbeisen, M., 262
Hanley, P. L., 85
Hannay, R., 333
Hanover University, 10
Institute for Production Technology & Chip Removal Machine Tools (IWF), 4
Materials Testing Establishment, 17, 18
Harris, G., news p, 2/84
Hart, J. M., 157
Hartley, K., news p, 6/84
Hazle, J., 309
Heath, P. J., 133, 340
Heger, R., 16
Heidenfelder, H., 147, 150
Herbert, S., news p, 3/84, 1, 24, 30, 71, 77, 152, 153, 159, 196, 199, 249, 257, 307, 324, 340
Hill, B. S., 16
Hoch, O. L., news p, 1/84
Holzmann, G., 187
Homann, D. P., news p, 1/84, 3/84
Hon, K. K., 146
Honeyborne, G., 262
Horological Journal, news p, 1/84
Hoskin, J., news p, 3/84, 250, 251, 253
Howes, T. D., 146
Hudson, J. A., 85
Huffstutler Jr., M. C., 76
Hughes, F. H., 277

I

ICSHM2 *see* **International Conference on the Science of Hard Materials, Second**
IDR *see* ***Industrial Diamond Review***
IG & GA *see* **International Grooving & Grinding Association**
INFN *see* **Italian National Institute for Nuclear Physics**
IMTS 1984 Fair, news p, 5/84
IWF *see* **Institute for Production Technology & Chip Removal Machine Tools, Hanover University**
Industrial Development Department, Ministry of Metallurgy & Engineering Industry, 203
Industrial Diamond Association of America, news p, 5/84
First International Technical Conference, news p, 5/84

Advanced Technology Committee, news p, 5/84
Industrial Diamond Review, news p, 1/84, 5/84, 6/84, 202, 276, 327
Industrial Diamond Workshop, news p, 5/84
Industrial Minerals, news p, 5/84
Inorganic Materials Research Institute, Science & Technology Agency, news p, 2/84
Institute for Problems of Materials Science, Academy of Sciences of the Ukrainian SSR, 327
Institute for Prodution Technology & Chip Removal Machine Tools (IWF), Hanover University, 4
International Conference on Creep Feed Grinding, University of Bristol, 319
International Conference on the Science of Hard Materials, Second (ICSHM2), contents p, 6/84, 332
International Grooving & Grinding Association (IG & GA), news p, 3/84
International Industrial Diamond Conference, Oxford, news p, 5/84
International Standards Organisation (ISO), news p, 5/84
International Technical Conference, DWMI 4th, 16
Isaac Newton Telescope, 73
Iscoff, 74, 76
Italian National Institute for Nuclear Physics (INFN), 96

J
Jablonovski, J., 319
Jackson, E., 201
Jennecke, L. E., news p, 1/84
Ji-Myung, Kim, 88
Jones, L., news p, 1/84
Juchem, H. O., 33, 44, 124, 126, 209, 218, 313, 319

K
Kachajian G., 74, 76
Kanakubo, E., news p, 5/84
Karavelli, J., 332
Karlsruhe Nuclear Research Centre, 4
Karlsruhe Technische Hochschule, 218
Kecskemét Music Academy, 206, 207
Kiflawi, I., 85
Kimmel, J., 323
King, Bill, 23
Kiscelli Museum, 206
Kizikov, E. D., 331
Klink, U., 218
Knight, R., 29
König, W., 150, 218, 319, 320, 323
Kolesnichenko, G. A., 331
Kondratskii, V. A., 331
Kosick, M., 158
Krause, G., 44
Kuan, T. S., 76
Kuettner, K. -H., 150
Kuzmick, L. F., news p, 3/84

L
Laimer, E., 93
Landvatter, K., 17
Lang, A. R., 85
Langland Vase, 196
Latanision, R. M., 85
Lavrinenko, I. A., 327, 331
Layberry, C., 208
Leipold, M. H., 76
Lerch, S, news p, 5/84
Lewis, R. L., news p, 1/84
Liebermann, G., 44
Limerick, T., 150
Liu, J., 74, 76
London University, news p, 6/84
Lonsdale, K., 333
Lowin, R., 319
Lutz, G., 319

M
MTMA *see* **Mine Tool Manufacturers' Association**
McCartney, D., 151
McConnell, D., 195
McGregor, A., 76
McHale, B., 151
Mackey, J., 260, 262
Maestre, J., 276
Malkin, S., 44
Marder, A. R., 44
Marsden, C. P., 76
Martin, A. E., 333
Marx, C., 275
Masire, Q., news p, 3/84
Mass, E., news p, 3/84
Materials Testing Establishment, Hanover University, 17, 18
Mattock, G., 162
Mazey, D. J., 85
Meek, R. L., 76
Metzger, J. L., 319
Meyer, H. -R., 150, 323
Mine Tool Manufacturers' Association (MTMA), news p, 2/84
Ministry of Metallurgy & Engineering Industry, Industrial Development Department, 203
Ministry of Supply, news p, 4/84
Minke, E., 319
Misa, O., 80, 81
Mmusi, P., news p, 2/84
Mohs, F., 333
Moore, A. C., news p, 3/84
Mosher, L., news p, 3/84
Motsak, Ya. F., 331
Murray, L. G. (Louis), News p, 3/84
Murdin, P., 73
Mushardt, H., 218

N
Naidich, Yu.V., 327, 331
National Physical Laboratory, 332
Nelson, J. M., news p, 3/84
Nelson R. S., 85
Netterscheid, Th., 150
New York Times, News p, 4/84
Nicholas, M., 331
Nicolls, M. O., 28, 312
Noichl, H., 319
Northwest Missouri State College, news p, 1/84
Notter, T. A., 150, 319, 340

O
Ogilvie Thompson, J., news p, 1/84
Oh Se-Chang, 88
Ohio State University, news p, 1/84
Oppenheimer, Sir Ernest, news p, 2/84
Oppenheimer, H. F., news p, 3/84
Oppenheimer, Louis, news p, 2/84
Oppenheimer, Otto, news p, 2/84
Optical Information Council, 250
Osephus, C., 156
Ositinskaya, T. D., 331
Ostertag, A., 4
Ottevanger, G., 154
Oxford University, Clarendon Laboratory, 82

P
Pacini, E., 254
Palmer, G. G., news p, 1/84
Parsons, J. W., news p, 6/84
Pearce, J. L., contents p, 5/84, 252
Perlac, Count of, 227
Perrett, C., 23
Perrott, G. D., 27
Philip, Duke of Edinburgh, news p, 3/84
Pickens, J. R., 85
Picker, M., 90
Pierse, D., news p, 3/84, 250, 251
Pickin, N. J., 340
Poduska Sen, J. W., news p, 5/84
Pogorely, B. D., 331
Polish Catholic Club, Birmingham, news p, 4/84
Polytechnic of Central London, news p, 6/84
Prague University, Academy of Fine Arts, 80
Priest, R. B., 16
Priest, R. E., news p, 3/84

R
RGO *see* **Royal Greenwich Observatory**
Radhakrishnan, V., 146
Rae, C., 2, 151
Rahman, J. F., 146
Raman, C. V., 333
Rasmussen, R. J., news p, 3/84
Relly G., news p, 3/84
Retail Jeweller, news p, 1/84
Rhodes University, news p, 3/84
Ridley, N. H., 249
Ritchie, F., 72, 73
Roberts, D. C., 340
Roberts, G., news p, 2/84
Robertson, Bill, news p, 5/84
Robertson, R., 333
Roemmele, C. F., news p, 1/84
Romney, C., news p, 3/84
Roque de los Muchachos Observatory, 71
Roscoe, R., 27
Rosenfeld, B., 319
Roulez, D., 245
Rowe, H. A. W., 27
Royal Bank of Scotland plc, news p, 6/84
Royal Greenwich Observatory (RGO), 71, 73
Russell, A., 23

S
SERC *see* **UK Science & Engineering Research Council**
SME *see* **Society of Manufacturing Engineers**
St. Thomas's Hospital, 249
Saljé, E., 147, 150, 319
Santoro G., 280
Sauren, J., 150
Scheuer, H., 319
Schleich, H., 319, 320, 323
Schmidt, N., 4
Schneider, E. J., news p, 5/84
Schneider, Margaret J., news p, 5/84
Schulz, R., 263
Schulze, R., 10
Schwaemmle, J., 319
Science & Technology Agency, Inorganic Materials Research Institute, news p, 2/84
Scott, P., 331
Scriven, A., 23
Seal, M., 253
Senior, B., 326
Shadmon, A., news p, 4/84
Shafto, G. R., 128, 150, 319
Shaw, P., news p, 6/84
Shiels, G., news p, 6/84
Shih, K K., 76
Shista, F., 276
Shurkhal, V. V., 331
Sickman, P., 93
Smith, N. R., news p, 4/84
Smith, P. D., 16
Smith, R., 125
Society for the Advancement of Management, news p, 5/84
Society of Manufacturing Engineers (SME), news p, 5/84
Industrial Diamond Workshop, news p, 5/84
Stapleton, C., 208
Steffens, K., 319
Steinmetz, K., 340
Stephens, C., 74, 76, 80, 81
Stokes, R. J., 34, 44
Stone, L. S., news p, 1/84
Stone Federation, UK, news p, 5/84
Stone Technology Centre, Technion, Israel, news p, 4/84
Stone Technology Centre, Jaipur, India, news p, 5/84
Stuckenholz, B., 320, 323
Svec, G. A., 81
Swersky, G., 16
Szakács, G., 202, 206, 207

T
TH *see* **Technische Hochschule**
Tae-won, Kim, 88, 89
Taeyaerts, J., news p, 5/84
Takeoka, S., news, p, 5/84
Technion, Stone Technology Centre, news p, 4/84
Technische Hochschule Aachen, 319
Technische Hochschule Karlsruhe, 218
Tejos, C., news p, 3/84
Thomas, M. J., 319

Thoreau, B., 94
Thornton, A. G., 85
Tönshoff, H. K., 4, 10, 147, 150
Tremayne, A., news p, 1/84
Tribe, J., 33
Triemel, J., 150
Trussell, T., news p, 3/84

U
UK Science & Engineering Research Council (SERC), 71, 72, 73 **Daresbury Laboratory,** 82
Umanskii, V. P., 327, 331
US Bureau of Mines, news p, 2/84
University of Aston, Birmingham, Department of Mechanical & Production Engineering, 143
University of Bath, 324
University of Bristol, Department of Mechanical Engineering, 146 **International Conference on Creep Feed Grinding,**319
University of California, Department of Physics, 332
University of Clausthal, 275
University of Hanover,10 **Institute for Production Technology & Chip Removal Machine Tools (IWF),** 4 **Materials Testing Establishment,** 17, 18
University of London, news, p, 6/84
University of Oxford, Clarendon Laboratory, 82
University of Prague, Academy of Fine Arts, 80
University of Vienna, news p, 5/84
University of Witwatersrand, 22

V
Valentine, T. J., 34
Van Biljon, J. J., 16
van der Heiden, E., 20, 21
van der Veen, A. L., 333
Van Diessen, J., 156
van Jaarsveld, K., news, p, 6/84
Van Vechten, J. A., 76
Vanderslice, T. A., news p, 5/84
Vasanji, Ramesh, 21
VASKUT (Vasipari Kutato Intezet), contents p 4/84, 202, 203, 204, 205, 206, 207
VASKUT-Research Institute for Ferrous Metallurgy, Department of Special Materials, 202, 203, 204, 205, 206, 207
Vienna University, news p, 5/84
Vikram, K., news p, 5/84
Volk, G. P., 331
von Laue, W., 333

W
Wales Charles, Prince of, news p, 3/84 **Princess of,** news p, 3/84
Wane, G., 309
Wapler, H., 147, 319
Ward, R. C. C., 85
Warnecke, G., 10
Wedepohl, P., 326
Weisner, Ch., 187
Werner, P., 319
Werner, P. G., 319
White, P., 151
Whitelock, K., news p, 3/84
Wilks, E. M., 82, 85
Wilks, J., 82, 85
Wilson, W. I., 340
Winter, H., news p, 4/84
Witwatersrand University, 22
Wright, Bob, 258
Wright, D. N., 266, 269

Y
Yegenoglu, 320, 323
Youman, Bob, news p, 6/84

Z
Zettel, H.-D., 218

TRADE NAME & COMPANY INDEX

A
ABC Diamond Tools, 77, 78, 79
ABN, 213, 318
ABN300, 30, 213
ABN360, 30, 318
ABN600, contents p, 1/84, 34, 35, 149, 213, 318
ABN615, contents p, 3/84, 123, 124
ABN660, contents p, 1/84, 30, 31, 33, 317, 319
Abrasive Boron Nitride, 30, 32
ACCU-CUT, news p, 1/84
Adamas Diamond Products (Pty) Ltd, 88, 87
ADONE, 96
Advanced Cutting Technology, news p, 1/84
Advanced Resins Ltd, news p, 2/84
Aerospace Materials Inc, news p, 1/84
Agathon SA, 133
AIT Industries Inc, news pp, 1/84, 6/84
Alber, Rudolf, 91
ALLEN—BRADLEY, news p, 3/84
AMBER BORON NITRIDE, 33, 150, 319
AMBORITE, contents pp, 1/84, 2/84, 4/84, 6/84, 28, 29, 88, 89, 195 265, 310, 311, 312, 334, 335, 336, 337, 338, 339, 340
AMC Classic (Pty) Ltd, 195
Anglo American Corporation of South Africa Ltd, news p, 3/84
Apollo Computer Inc, news p, 5/84
AREMCO ACCU-CUT, news p, 1/84
AREMCO-COOL, news p, 1/84
Aremco Products International Corp, news p, 1/84
Argyle Diamond Mines, news p, 6/84
Argyle Diamond Sales, news p, 2/84
ARMSTRONG, 208
Asahi Diamond Industrial Co, news p, 6/84
Ashton Mining, news p, 2/84
Atkins & Partners, W. S., 3
Avon Wire Company, 127

B
Banque Paribas, 259, 262
Barnato Brothers, news p, 2/84
Bauden Precision Diamond Ltd, news p, 6/84
Bay State Abrasives Division, Dresser Industries Inc, news p, 3/84
BINNS & BERRY TRIDENT lathe, 311
BOEHRINGER, 155, 264
Borsod Coal Mines, 205
BOSCH-ALPHA, 140
BOSCH MICRO S, 140
Boyles Bros. Ltd, news p, 5/84
Boyles Drilling Equipment Division, Dresser Industries Inc, news p, 5/84
Breton SpA, 255
British Diamond Wire Die Co Ltd, 26, 27
British Gas Corporation, 278, 279
Brocco Brothers, 280
Bullock Diamond Products, news p, 6/84
Buttermarket Studios, contents pp, 1/84, 3/84, 5/84

C
Canali Maschinenfabrik, 90, 93
Carborundum Abrasives, news p, 2/84
Carborundum Co, 23
CHARNON CONSOLIDATED, news p, 1/84
Carper-Carotaggi Perforazioni srl, 96
Carter Bros (Rochdale) Ltd, 310, 311, 312
CDA, 130, 134, 213, 277
CDA MICRON, 134, 136
CDA50C, news p, 1/84
CDA55N, 213
CDM, news p, 6/84
Cementation Costain Joint Venture, 1, 3, 153
Central Atlantic Contractors Inc, news p, 3/84
Central Selling Organisation (CSO), news pp, 1/84, 2/84, 4/84
CER-VIT, 71, 72, 73
CHRISTENSEN, news p, 3/84
Christensen Diamin Tools, news p, 2/84
Christensen Diamond Products, news pp, 1/84, 2/84, 23
Christensen Diamond Products GmbH, 4
Christensen Diamond Products (Italia) SpA, 96
Christensen Inc, news p, 2/84
Christison (SE) Ltd, news p, 6/84
Cincinnati Milling Machines Ltd, 23
Citco Inc, news p, 1/84
CLIPPER, contents p, 1/84, 1, 2
Coborn Engineering Co Ltd, news p, 6/84
Coborn Machine Co, 133
Cogsdill Tool Products Inc, news p, 1/84
Comdiam NV, news p, 6/84
Commonwealth Development Corporation, news p, 3/84
Concrete Coring Company Equipment Program Inc, 151
Construction Products Division, Super-Cut Inc, news p, 3/84
CONIFLEX, 30, 31, 32
Cotton Spinning Enterprise, 206
CRA, news pp, 2/84, 6/84
CRAELIUS, contents p, 5/84
Craelius AB, 279
Craelius Company Ltd, news pp, 1/84, 4/84, 278, 279
CRAELIUS DIABORIT, 278, 279
CRAELIUS DIAMEC, news p, 1/84
CRAELIUS DIAMY, 278
Craelius Group, 278, 279 **Unicorn Industries plc,** 278, 279
CRAELIUS PIXIE, news p, 4/84
CRETE MOWER, 157
Crete Planer Co, 157
Culver Diamonds, news p, 2/84
Cushion Cut Inc, news p, 3/84, 20, 21, 157, 158, 324, 325

D
DBA Engineering, news p, 4/84
Daewoo Motor Co, 88
DE BEERS, contents p, 6/84, news pp, 1/84, 2/84, 5/84, 6/84, 208, 326
DE BEERS ABN, 213, 318
DE BEERS ABN300, 30, 213
DE BEERS ABN360, 30, 318
DE BEERS ABN600, contents p, 1/84, 34, 35, 149, 213, 318
DE BEERS ABN615, contents p, 3/84, 123, 124
DE BEERS ABN660, contents p, 1/84, 30, 31, 33, 317, 319
DE BEERS ABRASIVE BORON NITRIDE (ABN), 30, 32
DE BEERS AMBER BORON NITRIDE, 33, 150, 319
DE BEERS AMBORITE, contents pp, 1/84, 2/84, 4/84, 6/84, 28, 29, 88, 89, 195, 265, 310, 311, 312, 334, 335, 336, 337, 338, 339, 340
De Beers Botswana Mining Company, news p, 3/84
DE BEERS CDA, 130, 134, 213, 277
DE BEERS CDA MICRON, 134, 136
DE BEERS CDA50C, news p, 1/84
DE BEERS CDA55N, 213
De Beers Central Selling Organisation, news pp, 1/84, 2/84, 4/84
De Beers Consolidated Mines Ltd, news pp, 3/84, 6/84
DE BEERS EDC, 213
DE BEERS EMB, 324
DE BEERS EMBS, 13, 14, 15, 16
De Beers Industrial Diamond Division (Pty) Ltd, contents pp, 1/84, 2/84, 3/84, 4/84, 5/84, 6/84, news pp, 1/84, 3/84, 4/84, 5/84, 6/84, 28, 29, 34, 44, 85, 124, 127, 132, 133, 139, 146, 150, 156, 159, 160, 194, 195, 198, 201, 218, 265, 312, 313, 317, 318, 319, 326, 332, 340 **Technical Service Centre,** 11, 28, 29, 34, 128, 133, 139, 147, 148, 150, 266, 270, 313, 317

Ultra High Pressure Units, news pp, 3/84, 5/84
De Beers Industrial Diamonds (Ireland), news p, 4/84, 139
De Beers Industrie-Diamanten (Deutschland) GmbH, 209, 313
De Beers International Industrial Diamond Convention, Manila 1977, 319
DE BEERS MDA, 79, 193, 212, 213, 214, 215, 277
DE BEERS MDA MICRON, 134
DE BEERS MDAE, 198
DE BEERS MDAS, 79, 192, 193, 197, 212, 277
DE BEERS MDA100, 212
DE BEERS MICRON, 213, 214
DE BEERS MICRON ABN, 213
DE BEERS MICRON CDA, 130, 213, 277
DE BEERS MICRON MDA, 193, 213, 277
DE BEERS MICRON SND, 213, 277
DE BEERS NRBT, news p, 1/84, 134
DE BEERS PCD, contents pp, 1/84, 2/84
DE BEERS SDA, 246, 270, 275
DE BEERS SDA-E, 280
DE BEERS SDA85, 267, 269
DE BEERS SDA100, contents p, 1/84, 13, 14, 15, 16, 22, 192, 193, 259, 260, 269, 270, 278, 325
DE BEERS SDA100S, contents p, 1/84, 270
DE BEERS SND, 213, 277
DE BEERS SND MICRON, 134
DE BEERS SNDMB, 213
DE BEERS SYNDAX 3, contents p, 3/84, news pp, 3/84, 5/84
DE BEERS SYNDIE, contents p, 1/84, news p, 6/84, 127, 24, 25, 26, 27
DE BEERS SYNDITE, contents pp, 3/84, 4/84, 5/84, 6/84, news pp, 3/84, 6/84, 24, 25, 26, 27, 128, 129, 130, 132, 133, 134, 135, 136, 137, 138, 139, 154, 155, 156, 159, 160, 161, 162, 199, 200, 201, 263, 264, 265, 334, 335, 336, 340
DE BEERS SYNDITE PLUS, 138
DE BEERS SYNDRILL, contents pp, 2/84, 3/84, 86, 87, 128, 129, 130, 131, 132
De Beers Technical Service Centre, 11, 28, 29, 34, 128, 133, 139, 147, 148, 150, 266, 270, 313, 317
DE BEERS TITANIZED, 16
DEBID *see* **De Beers Industrial Diamond Division**
DEC Diamond Engineering Consulting snc, contents p, 5/84, 280
Defiant Diamond Tools, 3
Deutsche Steinindustrie, DESTAG, 90, 91, 92, 93
DEUTZ, 2
DIABORIT, 278, 279
DIAFAST, news p, 1/84
DIAFIL, 95
Diagrit Diamond Tools Ltd, news pp, 3/84, 4/84
DIAMANT BOART DIAFIL, 95
Diamant Boart SA, 23, 94, 95, 245, 246, 248
Diamant Boart (UK) Ltd, news p, 5/84, 3
Engineering Division, contents p, 1/84, 23
Petroleum Products Division, 23
Stone & Construction Products Division, 23
DIAMEC, news p, 1/84
Diamond Corporation, news p, 2/84
Diamond High Council, Scientific & Technical Research Centre, news p, 6/84
Diamond Syndicate, news p, 2/84
Diamond Trading Company (Pty) Ltd, news p, 2/84
DIAMY, 278
DIABÜ Diamantwerkzeuge, GmbH, 191, 194
DIATUBE, 325
D.K. Holdings Ltd, 125, 126
Doebeli AG, Erhard, 140, 141, 142
Dowty Fuel Systems, 126
Dresser Industries Inc
Bay State Abrasives Division, news p, 3/84
Boyles Drilling Equipment Division, news p, 5/84
DRI DISC, news p, 2/84
DRILLISTIC, 20
Drukker & Zn NV, D., news p, 3/84, 251, 252, 253
DTC *see* **Diamond Trading Company (Pty) Ltd**
Dunkelsbuhler, A., news p, 2/84
DUPLEX NIRONITE, 339
Dynamit Nobel, news p, 2/84

E
East Midlands Gas, 279
ECHO, news p, 1/84
EDC, 213
Edson Evers Communications Ltd, news p, 4/84
ELMET, 319
EMB, 324
EMBS, 13, 14, 15, 16
Engineering Diamonds Ltd, 199, 201
Engineering Division, Diamant Boart (UK) Ltd, contents p, 1/84, 23
Engis Corporation, news p, 5/84
Engis Equipment Company, news p, 5/84
Micro Topography Laboratory, news p, 5/84
Engis Group, news p, 5/84
Engis Ltd, news p, 5/84
ERBE, 203
ERFURT, 30, 32
Eurolens (UK) Ltd, 78, 79
EWAG AG, news p, 5/84, 133
EWAG Corporation, news p, 5/84

F
Federal Mogul Corp, Target Products Division, news pp, 1/84, 2/84
FLABEG ELECTRONIC, 190
Flabeg GmbH, 187, 190
Foseco Minsep, 279
French Kier Construction Ltd, 1, 2, 3
Fritsch GmbH, news p, 6/84
Frost & Sullivan, news p, 2/84

G
Galway Crystal & Cavan Crystal Works, 196
Gardner Machine, news p, 1/84
GDM Inc, 324, 325
GEC *see* **General Electric Company Ltd**
GE Carboloy, 332
Gehring GmbH, 216
General Cables Division, Pirelli General plc, 24
General Electric Co Ltd, news pp, 1/84, 5/84, 308
Turbine Generators Div, contents p, 6/84, 307, 308, 309
Gentex Corp, 77, 78, 79
GEORGIAN CRYSTAL, news p, 6/84
Gerhäuser Marmorwerk KG, 90
GLEASON CONIFLEX, 30, 31, 32
Gleason Works Ltd, contents p, 1/84, 30, 31, 32, 33
Gray & Sons (Pty) Ltd, N.W., 20, 22
Griffith-McGee Demolition Company Ltd, 257, 259, 260, 261, 262
Grubb Parsons & Co Ltd, Sir Howard, 71
GTE Corporation, news p, 5/84

H
Habit Diamond Abrasive Division, 31, 33
Habit Diamond Tooling, news p, 2/84, 198
Habit Precision Engineering plc, news p, 2/84
HAIGIS, news p, 1/84
Henderson Diamond Group, news p, 6/84
Henderson Diamond Tool Co (1983) Ltd, news p, 6/84
Higgs & Hill Building Ltd, 257, 258, 262
Hitachi America Ltd, news p, 4/84
HITACHI SEIKO, news p, 4/84
Holes Inc, news p, 1/84
Hosoda & Co Ltd, news p, 5/84
Huddy Diamond Crown Co (Pty) Ltd, 22
Hunt Contracting Co, Kasler Corp, 157
Hunting Precision Components Ltd, 208
Hydrostress AG, 258, 261, 262
Hyundai Motor Co, 88

I
IDT Corporation, 81
IMPALA, 269
Impregnated Diamond Products Ltd, 23
Industrial Automation Systems Group, news p, 1/84
Ireland (Construction) Ltd, Ernest, 324, 325
Iscar Ltd, 332

J
Japan Prad Company Ltd, news p, 4/84
JENWAY, news p, 4/84
JKS-Boyles Ltd, news p, 5/84

K
KADIA, 218
Kasler Corp, Hunt Contracting Co, 157
Kayex-Capco (KX), 74, 75, 76
Kelch GmbH & Co, 133
KELLENBERGER, 155
KENDIA, contents p, 3/84, 125
Kennametal Inc, 332
Metallurgical Division, news p, 6/84
KÉV Public Construction Co, 206
Kia Industrial Co, 88, 89
KIA 'TITAN', 89
KOBELCO, 20, 21
Kriscut Concrete Drilling & Sawing Co Ltd, 1, 2, 3, 152, 153
KX *see* **Kayex-Capco**

L
Lach Spezial-Werkzeuge GmbH, news p, 4/84
Landis Lund, news p, 1/84
Landis Tool Co, news p, 1/84
Landrill UK Ltd, news p, 5/84
Lapmaster International Ltd, contents p, 4/84, 199, 200, 201
Lauster Steinbau GmbH, 90
Lenton Thermal Designs Ltd, news pp, 1/84, 4/84
Lieber & Solow, news p, 6/84
Litton Industries, news p, 1/84
Litton Unit Handling Systems, news p, 1/84
LOMBARDINI, 22
LONGYEAR, 152, 153
Lucas Machine, news p, 1/84

M
MAS *see* **Microsurgical Administrative Services Ltd**
McGee Group Ltd, 262
Malroy Products (Dudley) Ltd, 160, 161, 162
Mass Grinding & Grooving Inc, news p, 3/84
MDA, 79, 193, 212, 213, 214, 215, 277
MDA MICRON, 134
MDAE, 198
MDAS, 79, 192, 193, 197, 212, 277
MDA100, 212
Metallurgical Division, Kennametal Inc, news p, 6/84
Metallurgical Services Laboratories Ltd, news p, 3/84
Metallwerk Plansee GmbH, 308, 309, 311, 312
METASERV, news p, 3/84
Meyer & Burger SA, 74, 75, 76
Meyer KG, Carl, 90
MICRA, 250, 253
Micro Topography Laboratory, Engis Equipment Co, news p, 5/84
MICRON, 213, 214
MICRON ABN, 213
MICRON CDA, 130, 213, 277
MICRON MDA, 193, 213, 277
MICRON SND, 213, 277
Microsurgical Administrative Services Ltd, (MAS), news p, 3/84, 250, 251, 253
Miller, Martin, 91
Mintek, Physical Metallurgy Division, 326
Mitsubishi Metal Corp, 332
MONOLAMA, 247
MONSANTO, news p, 2/84
Moore Special Tool Co Inc, 123, 124, 125, 126
MORDANTIS, 246, 247
MORDENTI, 246, 247
MORIANTI, 247
Mu Inc, news p, 3/84
MultiMetall GmbH, 263

N
NAGEL, 218
NAGEL/ELGAN, 215
Namaqua Marble Industries (Pty) Ltd, 245, 246, 247, 248
National Commercial & Glyns Ltd, news p, 6/84
National Concrete Cutting, 158
National Railways of Zimbabwe, 20, 21
Nedstaal BV, 154
NEI Parsons Ltd, contents p, 2/84, 71, 72, 73

New Britain Machine, news p, 1/84
Niehoff, 25
NI-HARD, contents p, 6/84, 28, 29, 307, 308, 309
Nimbus Diamond Tool & Machine Co Ltd, 153, 258, 260, 261, 262, 325
NMI *see* **Namaqua Marble Industries (Pty) Ltd**
Norton Abrasives Ltd, news p, 6/84
Norton Christensen Inc, news pp, 2/84, 3/84
Norton Construction Products Ltd, 3
Norton Company, news p, 2/84
NRBT, news p, 1/84, 134

O
OID Co Ltd, news p, 5/84
OLIVETTI, 125
OPTIDRESS, news p, 1/84
Orebit Exploration Ltd, news p, 1/84
Oriental Diamond Industries Ltd, news p, 5/84
Osaka Diamond Industrial Co Ltd, 133
Owens-Illinois, 71

P
Parsons Diamond Products Inc, news p, 6/84
PEARCE implant lens, 252
Petroleum Products Division, Diamant Boart (UK), 23
PG OPTIDRESS, news p, 1/84
Physical Metallurgy Division, Mintek, 326
Pirelli General plc, contents p, 1/84, 24, 25, 26, 27
General Cables Division, 24
Pirelli Group, 24, 25, 26
PIXIE, news p, 4/84
Pneumo Precision Inc, news p, 3/84
POLY-TIP, news p, 1/84
PPG Industries Inc, 77
Precision Abrasives Ltd, news p, 2/84, 31, 32, 33
Precision Diamond Products (Northern), news p, 2/84
Precision Grinding Ltd, news p, 1/84

R
Rajasthan State Granites & Marbles Ltd, news p, 5/84
Rank Taylor Hobson Ltd, news p, 4/84
RANK TAYLOR HOBSON TALYCONTOR, news p, 4/84
Rasmussen Diamond Products Inc, news p, 3/84
Rasta Abrasives (UK) Ltd, 258, 259, 260, 262
RASTA TURBOLITE, 258, 259, 260, 261
Rennie Tools Co Ltd, 310, 312
Rocol Ltd, 126
Rubin & Son, news pp, 1/84, 3/84

S
SALVATORI, 247
Sausage Maker, news p, 4/84
SCHIESS FRORIEP, 309
Scientific & Technical Research Centre, Diamond High Council, news p, 6/84
SDA, 246, 270 275
SDA-E, 280
SDA85, 267, 269
SDA100, contents p, 1/84, 13, 14, 15, 16, 22, 192, 193, 259, 260, 269, 270, 278, 325
SDA100S, contents p, 1/84, 270
Shaw Abrasives (Diamond) Ltd, news p, 2/84
Shin-Etsu Handotai, news p, 2/84
Silicon Slice Processing Department, Texas Instruments Inc, 74
Silicon Technology Corp, (STC), 74, 75, 76
Siltec Corporation, 76
Slicing Specialists Inc, (SSI), 74, 75
Smit & Sons Diamond Tools Ltd, J. K., news, p 3/84
Smit Canada, J. K., news p, 5/84
Smith Precision Engineering Ltd, R. L., 124, 125, 126
SND, 213, 277
SND MICRON, 134
SNDMB, 213
SOLITAIRE, 159, 160, 161
SOLITAIRE PCD, news p, 3/84
Specialist Services (Cutting & Drilling) Ltd, 324, 325
SPIROLL EXTRUDER, 28
Spiroll International Ltd, 28, 29
SSI *see* **Slicing Specialists Inc,**
Standard Oil Company (Ohio), news p, 2/84
STC *see* **Silicon Technology Corp**
Steinwerk Tringenstein GmbH, 192, 194
STELMORE, 154
Stihl, Andreas, 17, 18, 19
Stone & Construction Products Division, Diamant Boart (UK), 23
Sumitomo Electric Industries Ltd, 332
Sungbo Industrial Co Ltd, 88, 89
Super-Cut Inc, news pp, 3/84, 6/84
Construction Products Division, news p, 3/84
Super-Cut Tooling Systems Inc, news p, 1/84
Swansea Crystal Ltd, 196, 197, 198
SYNDAX 3, contents p, 3/84, news pp, 3/84, 5/84
SYNDIE, contents p, 1/84, news p, 6/84, 24, 25, 26, 27, 127
SYNDITE, contents pp 3/84, 4/84, 5/84, 6/84, news pp, 3/84, 6/84, 24, 25, 26, 27, 128, 129, 130, 132, 133, 134, 135, 136, 137, 138, 139, 154, 155, 156, 159, 160,161, 162, 199, 200, 201, 263, 264, 265, 334, 335, 336, 340
SYNDITE PLUS, 138
SYNDRILL, contents p, 2/84, 3/84, 86, 87, 128, 129, 130, 131, 132

T
TALYCONTOR, news, p, 4/84
TARGET, contents p, 1/84
Target Products Division, Federal Mogul Corp. news pp, 1/84, 2/84
Target Saw Division, Trenchex Plant Sales, 1, 2, 3
Technical Service Centre, De Beers Industrial Diamond Division, 11, 20, 29, 34, 128, 133, 139, 147, 148, 150, 266, 270, 313, 317
Technodiamant Amsterdam BV, 154
Technotrade International Pte Ltd, news p, 2/84
Texas Diamond Tool Co, news p. 1/84
Texas Instruments Inc, Silicon Slice Processing Department, 74
THYSSEN, 154
TIGER'S EYE, 276, 277
TITAN, 89
TITANIZED, 16
Tokyo Seimitsu Co Ltd (TSK), 74
Tongbo International Corp, 89
Toolgal Degania, 246, 247, 248
Toshiba Tungaloy Co, 332
Toyoda Machine Works Ltd, news p, 4/84
Traction Safety International, news p, 3/84
Trenchex Plant Sales, Target Saw Division, 1, 2, 3
TRIDENT lathe, 311
Triefus plc, news p, 6/84
Tringenstein GmbH, Steinwerk, 192, 194
Tsukuba Research Institute, news p, 2/84
TURBOLITE, 258, 259, 260, 261
Twin City Tool, news p, 1/84

U
UHPU *see* **Ultra High Pressure Units**
Ultra High Pressure Units, De Beers Industrial Diamond Division, news pp 3/84, 5/84
Ultra High Pressure Units (Ireland), news p, 1/84
Ultra 2000 CNC, news p, 3/84
Unicorn Industries Diamond Products Division, news p, 4/84
Unicorn Industries plc, Craelius Group, 278, 279
Union Steel Corp of S.A. Ltd, (USCO), 127
USCO *see* **Union Steel Corp of S.A. Ltd**
UXIA, 160, 161

V
Van Moppes, L. M., news p, 4/84
Van Moppes & Sons Ltd, L.M., 23
Van Moppes-IDP, 23
Van Voorden BV, news p, 1/84
VARCAS, 280
Victor Products Ltd, news p, 5/84
VOLKSWAGEN, 325

W
Wacker-Chemie, news p, 2/84
Wadkin plc, contents p, 3/84, 159, 160, 162
Tooling Division, news p, 3/84
WADKIN SOLITAIRE, news p, 3/84, 159, 160, 161
WADKIN UXIA, 160, 161
WECO, news p, 1/84
Wellson Abrasive Products, news p, 2/84
Wendt GmbH, 133
WESTINGHOUSE, news p, 1/84
Wherry & Associates Inc, A. P., news p, 2/84
Wicksteed Son & Few, 257, 262
WIDIA, 155
Winter & Sohn (GmbH & Co), Ernst, news p, 4/84, 90, 93, 246, 247, 248
Winter, Gebrüder, news p, 4/84
Wright, Messrs R., 262

Z
ZEISS, 252
ZERIOL, 32
Zimbabwe National Railways, 20, 21

SUBJECT INDEX—PROCESSES

Core Drilling (in Civil Engineering)
Drilling high tensile steel reinforced concrete, 11
A new window on nuclear research, 96
The Drilling and Sawing Association, 151
Concrete machining by VASKUT in Hungary, 202
Better bits from Craelius, 278

Dressing and Truing
Timesaving bonus in continuous path jig grinding, 123
A versatile production form grinding machine, 140
Optimum conditioned state for CBN wheels, 143
Surface finish when grinding with CBN abrasives, 147
Truing and dressing of diamond saw blades, 266

Drilling *see* **Core Drilling, Rock Drilling**

Engraving
Peacock butterflies, with a little help from Cedar Rapids, 80
Seals and cameos made in Spain, 276.

Grinding (all materials except Concrete & Stone)
A new approach to I.D. grinding, 30
Wear mechanisms of ABN abrasive, 34
Timesaving bonus in continuous path jig grinding, 123
Edge preparation of SYNDITE PCD and parameters, 133
A versatile production form grinding machine, 140
Optimum conditioned state for CBN wheels, 143
Surface finish when grinding with CBN abrasives, 147
Mirrors with decoratively ground edges, 187
Irish lead crystal—product of Wales!, 196
Creep feed grinding—a review, 313
High performance grinding with electroplated CBN wheels, 320

Honing
Honing with diamond and CBN abrasives, 209

Inspection, Measuring Techniques, Quality Control
A new machine concept for deep sawing concrete, 4
A new window on nuclear research, 96
Hard rock drilling—some recent test results, 270

Lapping & Polishing
British expertise at heart of new international observatory, 71
The polycarb story could have a happy ending, 77
The abrasion resistance of brown diamonds, 82
A breakthrough in grinding and polishing hard stone, 191
Irish lead crystal—product of Wales!, 196
A granite machining challenge answered, 199
A unique development in gudgeon pins, 208
A proposal for increased productivity in stone surfacing, 254

Milling (of Stone)—*see also* **Turning, Boring & Milling**
A proposal for increased productivity in stone surfacing, 254

Optical Machining, Lens Machining
British expertise at heart of new international observatory, 71
The polycarb story could have a happy ending, 77

Polishing *see* **Lapping & Polishing**

Rock Drilling
Medium-hard rocks are drilled faster with SYNDRILL, 86
Hard rock drilling—some recent test results, 270

Sawing & Grinding (of Concrete & Asphalt)
A cautious approach pays off, 1
A new machine concept for deep sawing concrete, 4
Sawing asphalt using lightweight machines, 17
Raising the roof in Zimbabwe, 20
Cash dispenser installation made easy, 22
A new window on nuclear research, 96
The Drilling and Sawing Association, 151
Shorter opening hours on Bridge 14, 152
Helix head grinds 28,000 m² of concrete floors, 157
Pavement ramping—a better method, 158
A breakthrough in grinding and polishing hard stone, 191
Concrete machining by VASKUT in Hungary, 202
Go-it-alone concrete surgery, 257
Flush cutting bonus, 324

Sawing (Stone, Glass, Semiconductors, etc.)
Recent advances in substrate sawing technology, 74
A new bandsaw for slabbing natural stone, 90
Diamond impregnated wire for sawing hard abrasive stones, 94
Wood products latch on to PCD, 159
Irish lead crystal—product of Wales!, 196
African marble gets the diamond treatment, 245
Diorite cut by diamond wire, 280

Truing *see* **Dressing & Truing**

Turning, Boring & Milling (Non-ferrous & Ferrous Metals, etc)
Machining Ni-Hard augers with AMBORITE, 28
Korean auto parts machined with AMBORITE, 88
Boring sintered carbide rolls with SYNDITE PCD tools, 154
Seven times cheaper with AMBORITE, 195
Machining 'composite metals' with SYNDITE PCD, 263
New potential in the heavy machine shop, 307
Machining hard-faced components—better economics are possible, 310
Roll turning using SYNDITE and AMBORITE tools, 334

Wire Drawing
Fine grain SYNDIE opens up the PCD range, 24
SYNDIE boosts production, cuts costs, 127

SUBJECT INDEX—WORKPIECE MATERIALS

Abrasives
Wear mechanisms of ABN abrasive, 34

Aluminium *see* **Non-ferrous metals**

Asphalt *see* **Concrete & Asphalt**

Biological specimens, tissue
The diamond knife—rather more than meets the eye, 249

Brass *see* **Non-ferrous metals**

Brick *see* **Masonry, Refractories**

Carbide *see* **Tungsten carbides**

Ceramics, Glass Ceramics
British expertise at heart of new international observatory, 71
Timesaving bonus in continuous path jig grinding, 123

Concrete & Asphalt
A cautious approach pays off, 1
A new machine concept for deep sawing concrete, 4
Drilling high tensile steel reinforced concrete, 11
Sawing asphalt using lightweight machines, 17
Raising the roof in Zimbabwe, 20
Cash dispenser installation made easy, 22
A new window on nuclear research, 96
The Drilling and Sawing Association, 151
Shorter opening hours on Bridge 14, 152
Helix head grinds 28,000 m² of concrete floors, 157
Pavement ramping—a better method, 158
Concrete machining by VASKUT in Hungary, 202
Go-it-alone concrete surgery, 257
Flush cutting bonus, 324

Copper *see* **Non-ferrous metals**

Crystals, Minerals (see also Semiconductors)
Recent advances in substrate sawing technology, 74

Diamond
The abrasion resistance of brown diamonds, 82
The influence of temperature and heating time on PCD performance, 128
Edge preparation of SYNDITE PCD and parameters, 133
The diamond knife—rather more than meets the eye, 249
Metal and alloy bond strengths to diamond, 327
'Diamond', book review, 333

Ferrite *see* **Ceramics**

Ferrous metals *see* **Steel**

Gemstones, semi-precious
Seals and cameos made in Spain, 276

Glass
British expertise at heart of new international observatory, 71
Peacock butterflies, with a little help from Cedar Rapids, 80
Mirrors with decoratively ground edges, 187
Irish lead crystal—product of Wales!, 196

Gold *see* **Non-ferrous metals**

Granite *see* **Stone**

Iron *see* **Steel**

Limestone *see* **Stone**

Marble *see* **Stone**

Masonry, Refractories (See also Stone)
Concrete machining by VASKUT in Hungary, 202

Minerals *see* **Crystals, minerals (also Semiconductors)**

Non-ferrous metals
Roll turning with SYNDITE and AMBORITE tools, 334

Plastics (including GRP)
The polycarb story could have a happy ending, 77
Roll turning using SYNDITE and AMBORITE tools, 334

Reconstituted stone *see* **Stone**

Refractories *see* **Masonry, Refractories**

Rock (see also Stone)
Medium-hard rocks are drilled faster with SYNDRILL, 86
Hard rock drilling—some recent test results, 270

Semi-conductor materials
Recent advances in substrate sawing technology, 74

Slate *see* **Stone**

Steel (and other ferrous metals)
Machining Ni-Hard augers with AMBORITE, 28
Wear mechanisms of ABN abrasive, 34
Korean auto parts machined with AMBORITE, 88
A versatile production form grinding machine, 140
Seven times cheaper with AMBORITE, 195
A unique development in gudgeon pins, 208
Honing with diamond and CBN abrasives, 209
Machining 'composite metals' with SYNDITE PCD, 263
New potential in the heavy machine shop, 307
Machining hard-faced components—better economics are possible, 310
High performance grinding with electroplated CBN wheels, 320
Roll turning using SYNDITE and AMBORITE tools, 334

Stone
A new bandsaw for slabbing natural stone, 90
Diamond impregnated wire for sawing hard abrasive stones, 94
A breakthrough in grinding and polishing hard stone, 195
A granite machining challenge answered, 199
African marble gets the diamond treatment, 245
A proposal for increased productivity in stone surfacing, 254
Diorite cut by diamond wire, 280
Roll turning using SYNDITE and AMBORITE tools, 334

Tungsten carbide
Timesaving bonus in continuous path jig grinding, 133
A versatile production form grinding machine, 140
Boring sintered carbide rolls with SYNDITE PCD tools, 154

Wood
Wood products latch on to PCD, 159

SUBJECT INDEX—MISCELLANEOUS

Book Reviews
'Diamond', 333

Conferences, Seminars, Exhibitions, Visits
ICSHM2 held in Greece, 332
25th Anniversary of De Beers diamond synthesis, 326

Obituaries, Memorials
Dr. Louis Murray, news p, 3/84
N. R. Smith, news p, 4/84
Hans Winter, news p, 4/84
Pat Byrne, news p, 4/84
Eric J. Schneider, news p, 5/84

Properties of Diamond & Cubic Boron Nitride
Fine grain SYNDIE opens up the PCD range, 24
Wear mechanisms of ABN abrasive, 34
The abrasion resistance of brown diamonds, 82
The influences of temperature and heating time on PCD performance, 128
Edge preparation of SYNDITE PCD and parameters, 133
Honing with diamond and CBN abrasives, 209
High performance grinding with electroplated CBN wheels, 320
Roll turning with SYNDITE and AMBORITE tools, 334

INDUSTRIAL DIAMOND ABSTRACTS

INDEX 1984 VOL. 44

Author Index	2
Trade Name and Company Index	6
Key to Abstract Nos.	8

INDUSTRIAL DIAMOND ABSTRACTS

Volume 44 1984 (1/84—6/84) Nos. 500-505

General Notes. (1) Individuals, societies, and institutions appear in the first part of the index, whilst commercial companies and trade names are listed in the second part, (2) Lists of new patents (section W) are not included. (3) Patentees from patent abstracts are indicated by an asterisk. (4) Abbreviated words *eg* St for Saint, Mc for Mac, appear in the alphabetical order of the full version. (5) Numbers given are abstract numbers: in order to locate in which issue a given abstract may be found, a key is appended on page 8. (6) Abstract numbers in brackets are of 'internal' references, *ie* they are not authors of the articles or patents but are referred to in the text.

IDA AUTHOR INDEX

A

Aachen Technical High School (RWTH), (F122)
Academy of Sciences of Ukrainian SSR, Institute for Superhard Materials, (N27)
Adadurov, G. A., A31*
Adamovskii, A. A., C8, F87
Adishev, Yu. N., A50
Adrianus, R. C., K12*
Aeschlimann, A., N31
Afanasiev, I. S., L31
Afanasiev, V. P., R34
Agee, J. J., R3
Ahrens, T. J., A120
Aijala, R. M., C2
Akaisha, M., A133
Aleksandrov, V. A., M35, M93
Allen, B. P., A69*
Allen, H. E. K., R9
Allen, T., J11
Almond, E. A., B105
Alte-Teigeler, O., M48
Althaus, P. G., F146
Althen, W. W., G11*
Altmann, S. L., A40
Amos, A., G59
Andreev, V. D., A48, A59, A108, C59
Andres, U., R58*
Andrianova, I. A., F152, F157
Andrievskii, R. A., B56
Androsov, I. M., N10
Aparicio, T., L35*
Arahori, H., F180*
Arashi, H., P2
Arceneaux, M. A., L46
Argmann, K., G34, N57
Argunov, K. P., R24, R55, R76
Arkhipov, D. N., N29
Arkhipov, I. K., H3
Armarego, E. J. A., F68
Aronsson, B., B104
ASSODIAM, (M69), (M70), (M71), (M72)
Atkey, M., G58
August, J. S., B32

B

Bachmann, W., E71
Bagdarov, E. A., R19
Bailey, M. W., F76
Baker, R. D., B18
Balan, T. R., A27
Balck, J., N7*
Bando, S., N18*
Banks, B. A., A15
Bannerman, W., L44
Barnes, B., G59
Barr, J. D., L23*
Barré G., M47, M51, M52
Bartosek, M., E42*, E60*
Bartoshinskii, Z. V., R67
Batiashvili, B. I., F41
Bausch, T., F105
Baylis, R. J., F56
Beal, H. A., A95*, A96*
Bedere, S., T9*
Beecher, P. F., B77
Beier, R., P26
Belorussky Politekhnichesky Institut, C33*, C85*, C89*, C104*
Belov, V. I., N29
Ben[illegible]orsky, L., B14
Bennett, E. S., G41*
Berlin Technical University, Institute for Machine Tools & Production Technology, (E5)
Bernieri, P., C68*
Bertoldo, G., C16*
Bertrand, R., M97*
Bestelli, L., A92
Bex, P. A., K10, K14
Bezrukov, G. N., A19
Biastoch, G., D23, N1
Bickel, H. -J., E17*
Biedron, R., M76*
Bilenko, Yu. M., A141, R49, R56
Birmingham University, (D17)
Biss, V., B13
Boch, P., B63
Bochkovskii, A. M., C9, C60, L49
Böhme, D., F103
Bogatyreva, G. P., A23, J10
Bogdanov, A. V., A132, A135
Bogdanov, R. K., L29
Boim, N. G., D7
Bolton, D., B53
Borovikov, N. F., A60
Borovskii, G. V., D39
Bosshaert, H., Q8*
Botkunov, A. I., R21
Bouchard, D. W., C70*, G46
Bourquin, P., G38
Bovenkerk, H. P., C99*, K2*, L25*
Bovensiepen, H. J., G9*, G20*, G64*
Brandt, G., N83*
Braunstein, G., A35
British Science & Engineering Research Council (SERC), (D9)
Britsch, H., C105*
Bronshtein, D. Kh., C35
Brookes, C. A., A108, C23
Brookes, K. J. A., B3, B6
Brushek, D. K., C27*
Bryk, M. T., A140
Buchek, L. T., (B33)
Budyak, A. A., A67, T4, T14
Buisson, J. P., A11
Bulanova, G. P., R18
Buljan, S. -T., B68*
Bullen, G. J., L21, M5
Bunge, L. P., E47*
Bunz, G., Q5*
Burgemeister, E. A., P21*
Burrichter, F., D35, B93
Bursill, L. A., A74, A75
Butschkov, D. T., C20*
Büttner, A., M72, N7*

C

CUPE *see* **Cranfield Unit for Precision Engineering (CUPE)**
CIRP, (F120)
Cai, O., M71
Caithness, W., D8
Campo, G. Gomez Del, A126
Canadian Machinery & Metalworking, V2
Cancian, G., M44
Cane, F., M2
Capuzzi, Q., M95
Cardone, J. C., F47
Carver, E. B., C31*, C47*, F73*
Casquilho, J. P., A8
Casstevens, J. M., D1
Cave, E. F., P47*, P48*
Cave, R., G42*
Chadwell, T., G49
Chantikul, P., B79
Chepovetskii, I. Kh., G60
Chepurov, A. I., A51, A65
Chernikov, V. V., A111
Ching, W. Y., A104
Chistyakov, E. M., C94
Cho, H. S., C25*, C69*
Christiansen, J. H., L53
Christy, D. O., (A12)
Chukova, Yu. P., A53
Chun, J., E72
Chuprina, G. V., A138
Clar, R., G3
Clark, G. B., L19
Cleckler, N., N22*
Coble, R. L., B75
Cohen, M. L., A118
Collins, A. T., A1, A2, A32, A33, A34, A71
Condon, J. B., C103*
Cooley, B. A., F133
Corelli, J. C., B73
Corley, W. G., G66*
Corrigan, F. R., C51*
Cowden, J. J., P47*, P48*
Cranfield Institute of Technology, (D2)
Cranfield Unit for Precision Engineering (CUPE), (D9)
Cress, L. A., L41
Cross, J. R., F53*
Crossland, B., B64, T23
Crow, M. L., L40
Cullers, R. L., R42

D

Daimon, M., E30
Damlos, H.-H., E21, E22, F99, F109, J5
Danell R., P41
Daniel, P., M18, M25, M96, V1
Daniels, W. B., P4
Danilenko, V. M., 109
Dannecker, K., F145

Davies, A., P64*
Davies, G., A7
Davis, K., L11*, L22*
Davis, R. F., B106
Davydov, V. A., A24
Dawson, J. B., R59
De Beers Diamond Research Laboratory (DRL), (J6)
de Potter, M., A82, A102
Decker, D. I., D33*
Deeb, M., N33*, N73*, N86*
Degrange, E., F49
Denisov, E. V., H2
DeSantis, R. P., G53*
Destree, A., M21*
Devirts, A. L., R70
DeVries, R. C., A45
Dholakia, A. R., C98*, F27*, P17*, P18*, P53*, P56*, P57*, P61*
Diamond Institute, The, Q3*
Diesing, K., E73*
Dietrich, E., F24
Dietrich, R., D13
Dischert, W. A., P50*
Dolinskaya, L. K., B102
Doll, W., N30
Domanski, S. K., C70*
Dominijanni, G., E36
Donckers E., M42*
Dorofeev, Yu. N., G23, G30
Dorofeyev, Yu. D., Q1
Dorsch, J., D22
Drzewiecki, M., P43
Dukas, B. A., L20
Durfort, J., G42*
Dyer, H. B., A29*, C83*
Dzhamarov, S. S., A46, A47, B57

E
EMO, 5th, (B82), (F37), (F65)
Echard, A., M20*
Eckardt, R., N67*, N68*
Eckstein, F., F64
Eda, H., F176
Eder, K. G., K7, K9, K15
Edsmar, K., B38
Efros, M. G., C36
Eggert, W., E45*
Eglème, P., M18, M25, M96, M99
Ehrenwaldt, J., Q4
Eman, K. F., F116
Endo, S., P3
Erdt, W., M36*
Erinski, D., B5
Ershova, T. P., A124, A125
Ertingshausen, W., M53
Evans, A. G., B72
Evans, C., D3
Evans, T., A69*
Exley, R. A., R61
Exner, H. E., B103

F
Faber, K. T., B72
Fadalti, B., N61*
Fadeev, V. F., L30
Fahl, H. J., F181*
Fantini, L., M23*
Favrot, P., F25*
Feder, R., (A11)
Federal Republic of Germany, (N78)
Fedoseev, D. V., A114, A123, (A135)
Fedoseyev, O. B., F132
Feldmann, H. D., K1
Ferazzini, G. M., M22*
Ferrand, H., M20*
Fielder, J. L., L46
Filipov, A. G., R41
Fingerle, H., G61*
Fitch, F. J., R60
Fiveiskaya, L. V., R37
Flinchbaugh, D. E., E14*
Föllinger, H., E23, F85
Fomin, G. I., H6
Forsyth, I., D5
Fox, D. G., G25*, G40*
Frank, H. W., F181*
Franks, C. P. L., C17*, L45*
Freeman, V., N34*
Frehn, F., B86*
French, D. A., A30*, B25*
French, E. A., B25*
French, F. A., A30*
Frey, W., N31
Friederich, K. M., B75
Friedrich, H., E73*
Friedrich, V., F44
Fry, J., M33
Fukuda, R., F13
Fuller, J. M., L34*
Furukawa, Y., F18, F128

G
Gadiyak, G. V., A84
Gaetano, R., N35*
Galimov, E. M., R44
Galle, E. M., L43
Ganenko, V. B., A13
Garanin, V. K., R75
Gargin, V. G., A20, A22
Garner, L. L., L10*
Gärtner, W., E4, E11, E70, F149
Gaudig, W., G37
Ge, Y. L., B50*
Gehring, H., G18*
Geisweid, G., E11, E70, F149
Genshaft, Yu. S., R32
Gerasimovich, A. V., T15
Gerber, H., D38
German, M. A., E27*
Germany, Federal Republic of, (N78)
Giardini, D. S., N20*
Gibbs, P. N., D24*
Gigl, P. D., C32*, C69*
Gillette, R. H., G24*
Gilmore, C. M., B101
Gimpert, D. R., F115
Glandus, J. C., B63
Glittenberg, K., N33*, N73*, N86*
Gloor, P., M9*
Glukhov, Yu. A., N26
Goldsmid, H. J., P41
Golis, S. W., L47
Gordeev, G. V., A90
Gordeev, S. K., A93, A110, A139
GOST, Soviet Standards, (A22)
Gottlieb, K., M1, M82
Govila, R. K., B60
Graham, J., E1
Grainger, S. J., L9*
Grappendorf, R. H., L2*, L26*
Grazen, A. E., C92
Grdzelishvili, G. Yu., F41
Green, G. W., B24*
Green, H. W., R6
Grenier, J. W., C13*
Grenser, H. D., T16*
Grewe, H., B81, B85*
Grigorev, O. N., P14
Grigoryan, G. D., F42
Grigoryev, V. M., E52
Grimm, H., G17*, G61*
Grimsby, E. A., N24*
Grodzinski, E. Ya., H1
Gröger, G., E2
Gueguen, Y., R6
Gurney, J. J., R10
Gurvich, M. Yu., R36
Gurvich, R. A., S3

H
Haggerty, S. E., R8
Hahn, R. S., F150
Hall, F. W., B45*, B98*
Hall, G. L., A12, (A12)
Halperin, A., A5, A6
Hamilton, W. D., N8*
Hanna, S. B., B62
Hanover University, Institute for Production Technology & Chip Removal Machine Tools (IFW), (E4), (F97), (F145), (F149), (M53)
Han-ying, L56
Hara, A., C28*, C58*, C76*, K6*, K18*
Hara, T., N70*
Harris, D. I., C64*, C86*
Harte, B., R10
Hartzell, T., B7
Harwood, R. E., P35*
Hashimoto, F., E33, E58, F126
Hashimoto, M., C62*
Häuser, K., F37, F65
Hausner, H., G36
Havenith, H., F43
Hayashi, K., B90
Hayden, C. S., C14*
Hayden, S. C., C44*, C71*
Hedel, R. H., P23*
Heliotronic Forschungs- u. Entwicklungsgesellschaft für Solarzellen Grundstoffe mbH, N6*
Helmstaedt, H., R4
Henn, K., E6, E7, F101, F112
Henry, R. J., B29*
Henry, R. L., E61*
Henzler, (A10)
Herbert, P., L7
Herbert, S., C3, D26, D30, D37, (M11), M28, M30, M32, M63, M66, M89, N49, N74, N75
Herbert, S. A., J7
Herkt, P., N48*
Hermel, W, B21
Herzig, P., F111
Heynacher, E., N78
Hidaka, K., B48*
Higuchi, M., F173
Hildenbrand, K., G8
Hill, P. D., N17*
Hingle, H. T., D25
Hintze, U.-H., F52
Hirano, S. I., A121
Hitchiner, M. P., D36, F86
Ho, P. T., P32
Hobbs, J., T10
Hofer, S., T20
Hoglund, N., E15*
Hojo, J., B74
Holcombe, C. E., C103*
Holleck, H., B52
Holzmann, G., N42
Hooper, R. M., C23
Hoover, D. B., T11
Hoover, E. R., L17
Hopkins, J. R., E19*
Howes, V. R., P12
Huang, H., L58*
Huang, M. Z., A104
Hubbard, B., G27*
Hubbard, F. J., R2, R7
Huber-Gommann, U., M3
Hübner, G., C36
Hübsch, H., F67
Hück, W., D32
Huffman, D. R., P10
Hughes, G. F., P8*
Hughes, R B., E59*

I
IFW *see* **Institute for Production Technology & Chip Removal Machine Tools**
ISM *see* **Institute for Superhard Materials**
Iizuka, E., B26*
Ilupin, I. P., R32, R39
Iman, M. A., B101
Inada, H., G50
Inoue, H., F167, F169
Inoue, J., M73*
Inoue, K., C19*, C34*
Institut Khimicheskoi Fiziki Akademii Nauk SSR, A31*
Institut Sverkhtverdych Materialov Akademii Nauk Ukrainskoj SSR, A130* (*see also* **Institute for Superhard Materials**)
Institute for Machine Tool & Production Technology, Technical University (TU) of Berlin, (E5)
Institute of Production Technology & Chip Removal Machine Tools (IWF), Hanover University, (E4), (F97), (F145), (F149), (M53)
Institute for Superhard Materials (ISM), (A67), (L30)
Academy of Sciences of Ukrainian SSR, (N27)
International Conference on Marble and Granite Mining and Processing, (M65)
International Wire Exhibition 'Wire 82', (K1)

Intrader, J., C16*
Ishibachi, T., B67*
Ishida, H., F136
Ishigame, M., P2
Ishikawa, K., N52
Ishikawa, K. -I., N52
Ishikawa, T., E30
Ishizuka, H., C66*
Isobe, E., C26*
Ivanitskii, Yu. V., C36
Ivankin, P. F., R17
Iwaki, M., A36
Iwao, N., B10, B11
Iwasaki, H., P25
Izrailovich, M. Ya., F131

J
Jack, K. H., B65
Jacoby, H.-D., P22*
Jansson, T., F26*
Janutta, R., E37*, E45*, E76*
Jayaraman, A., P24
Jeynes, C., G21
John, G., P62*
Johnson, A. B., K4
Jones, A. P., R61
Jones, R., A37, A39
Joo, L., B28*
Juchem, H. O., C61, F133
Juranek, H. J., N12
Jürgens, R., L13*, L14*, L32*, L33*, L37*, L38*, L39*
Junker, E., E18*

K
Kabanovskii, L. N., F82
Kacalak, W., N58, F95
Kachajian G. S., N36*
Kachinskii, V. N., T8
Kaganovicz, G., P56*
Kalish, H. S., B4
Kalish, R., A35
Kalish, S., B32
Kalmutskii, V. S., F35, F96
Kamenetskaya, D. S., A57, A125
Kaminskii, F. V., R33, R44, R66
Kammermeyer, S., F62
Kamo, M, A78
Kanda, H., A3
Kane, R. E., T18
Kanemitsu, Y., B1
Kang, S. B., B36
Kangun, V. R., F131, N77
Kapitonov, G. A., R41
Karaseva, L. G., A115
Karpus, A. N., F132
Karyuk, G. G., J1
Katacka, K., N70*
Kato, M., Q6
Katz, U., N56
Kaufeld, M., F60
Kawaguchi, K., G26*
Kawakita, T., C52*, E74*
Kazui, T., C82*
Keely, R. J., B53
Kegg, R. L., F120
Keizer, E. O., P19*
Keller, W. S., L40
Kennon, N. F., G5
Keusch, L., M83
Khar'kiv, A. D., R14, R47, R79
Khasanov, R. Z., G4
Khodakov, G. S., N26
Khomenko, V. M., R29
Khvorostukhin, L. A., G22
Kiehl, W., F97
Kikagawa, T., P25
Kim, Y. G., B36
King, T., A38, A39
Kingon, A. L., B61, B106
Kirikilitsa, S. I., R28
Kirilov, V. S., B23, B84
Kishi, S., F135
Kistler, W. A., L43
Klein, A., M60*
Kleykamp, H., B52
Klink, U., G13
Klocke, F., E5, F51
Klug, D. D., P34
Klüting, A., D6
Knowlton, R. H., L58*
Knyazeva, I. A., C24
Kobayashi, A., D31
Kobayashi, H., N19*
Kobayashi, T., N44*
Kobzar', L. E., S2
Kolaska, J., B81, B85*
Kolomazin, V. M., F153
Kondo, K., A120
König, H., F88
König, W., B5, E6, E7, E23, E31, E64, E65, F70, F86, F92, F100, F101, F123
Konorova, E. A., A98, A128
Kopp, O., C54*, C106*, G16*, G29*, G35, G44*
Kornilova, V. P., R26, R77
Koskie, E. T., L18
Koslov, A. A., R38
Kostrovitskii, S. I., R22, R37, R40
Kotte, G., M16
Kovyzhenko, G. I., F166
Koyama, T., N71*, N72*
Kramers, J. D., R82
Krautman, K. R., C42
Kremen, A. I., F32
Kruger, F. J., R1
Kryuchkov, V. Ya., F33
Kudoyarov, R. G., G4
Kukharenko, N. A., R65
Kukharenko, S. A., G94
Kulakova, I. I., R68
Kumysh, Yu. Ya., N28, N77
Kunitskii, S. K., A87
Kunz, E., D16
Kurdyumov, A. V., A109
Kuromatsu, A., C18*, C107*
Kurtz, J. A., M78
Kurusu, M., F122
Kuster, R., M87
Kvarnback, B., B38
Kyusojin, A., G50

L
Lacam, A., P60
Lach, H., E46*, F30*, F54*, F148*, M37*, M102*
Lal, G. K., E43
Lange, F. F., C90, F104
Langford, J. W., L3*, L24*
Langouche, G., A82
Largeteau, P. A., G15*, G19*, G54*
Lassner, E., B54, B55
Lauga, G., M58*
Lavin, P. M., R64
Lawrence, J. C., Q7*
Laz'ko, Ye. Ye., R51, R71
Le Roux, H., B2, B107
Lebedev, V. N., L31
Lebedev, Val S., R53
Lee, M., C15*, C45*,, C48*, C53*, C63*
Lee, W. S., F18, F128
Letnikov, F. A., R12
Leukhardt, P., F121
Lev, N. I., C75
Levering, R. M., C27*
Lewandowski, T., N85*
Lewasheff, S. W., N24*
Lewis, M., B22
Lian, G., A134
Lierath, F., D14, F110
Lindholm, E. S., B7
Lindsay, R. P., F58
Lippiello, S., M41*
Lipsitt, H. A., B100
Liu, Z. C., C22
Lobanov, A. V., F155
Löffler, K., M75*
Löns, H. H., F46
Lorenz, M., C11*, C12, C87*, C88*
Loreto, W. P., N66*
Los Alamos National Laboratory, (C1)
Losev, V. A., G33
Lössl, G., N69*
Loubser, J. H. N., A73
Louie, S. G., A44
Loup, R.-L., N39
Lowin, R., E25
Lutz, G., E20*, E28*, M39*, M74*
Lyon, R. C., L54
Lysanov, A28*, A130*

M
McCulloch, M. T., R63
McGill, R. J., R2
Machida, H., N19*
McKeown, P. A., D9
McLachlan, D. S., B107
Magida, M. B., B78
Mal'kov, B. A., R80
Manlang, L., B35, B58
Mannolini, A., M94
Marakushev, A. A., R27, R31
Marazzi, S., C30*
Marble & Machine Exhibition, 4th, (M56)
Marble & Machine Exhibition, Sant' Ambrogio, 21st, (M46)
Marche, N. H., A100
Marinescu, L. D., F59
Marshall, D. B., B16, P13
Martyshko, V. V., F153
Maslowski, A., L52
Mason, G., F4
Mason, J., L44
Matsubara, H., B91
Matsuda, T., G26*
Matsui, S., E54, E67, F21, F127
Matsui, Y., A80, A81
Matsumoto, S., A77, A79, A80, (A81)
Mayer-Meier, J., M45, M86
Mazurenko, A. M., A52, A87, T1
Mekhonoshin, A. S., R25
Merezhko, Yu. I., A112
Messer, J., F100
Metal Society, The, (B65)
Metalidi, S. V., R30
Metzger, J. L., C38
Meyer, H., E66
Meyer, H.-R., E8, E9, E49*, F172
Michalsky, J. K., G48
Michelbach, F., E2
Middleton, J. N., L17
Mikhailov, A. A., G31
Mikhnovskaya, A. N., A66
Milanovskii, Ye. Ye., R80
Miller, H. C., F74*
Miller, J. A., R60
Miller, M. E., P28*, P65*
Minamiyama, T., F180*
Minar, S., N51
Minford, E. J., B70, B71
Minke, E., E29
Miracle, D. E., B100
Mitchell, M. K., A117*
Mitsuo, S., N46*
Miyake, S., N3
Miyamoto, I., P15, S1, S6
Miyoshi, T., F12, F163
Mockle, H. C., L20
Moore, M., N16*
Morel, A., N61*
Morena, R., B80
Mori, T., A16
Moritomo, S., F113*
Morland, A. H., N60*
Morozumi, M., F135
Morris, R. O., L50
Moshkovskii, Ye. I., J1
Mühlbauer, K., C84*, N6*
Mukhachev, Yu. S., A99
Muramatsu, S., A72
Muramatsu, Y., R73
Murata, Y., C72*, N63*
Murray, D., N50
Mushardt, H., E72, G38
Mussler, B., B17
Myatt, G. S., D17
Mylewski, J., M38*, M59*

N
NAMRC, (E50)
NPL *see* **National Physical Laboratory (UK)**
Nagao, T., C40
Nagel, D. D., L35*
Nagler, B., G2
Naidich, Yu. V., A54, C41

Naka, S., A122
Nakai, T., C10*, C21*, C50*, C56*, C73*
Nakajima, T., C39, E55, F14, F170
Nakayama, K., F16
Namba, Y., A16
Narcus, H., C49*
National Institute for Researches in Inorganic Materials (Japan), A68*, A94*
National Physical Laboratory (NPL), (B56), (D3)
NatWest Bank, (M63)
Nazaré, M. H., A8
Nepsha, V. I., A62
Nesterov, A. N., A89
Neuendorf, H. -C., N67*, N68*
Nicolls, M. O., D28
Nikishova, L. V., R57
Nikolaenko, V. A., A4, A143
Noble, C. F., H4
Nogale, E., F125
Noguchi, H., F165
Nomura, M., T21
North, B., B18
Notter, T. A., D15
Novikov, N. V., A56, A85, A142, J3, J9

O
Obeloer, M., D6, D41
Oberdieck, J., M7
Ochiai, N., N11
Offenbacher, L. A., L42
Ogawa, S., C97
Ogyu, S., M57*
Ohno, J. M., B49*
Ohtsu, Y., B15
Okada, S., C96
Okamoto, K., C97
Okamura, K., F137, F143, F178
Oki, S., B83, B88, B108
Oleinik, G. S., A127
Olekhnovich, A26, A129
Olszewski, E., N84*
Ono, J. M., C79*, C80*
Ono, K., F106
Ono, T., C65*
Osterstock, F., B34
Oszut, M., G45*
Ota, M., F113*
Otsuka, J., N82
Ozima, M., R5, R81

P
PERA *see* **Production Engineering Research Association (UK)**
Pagella, E., F71*
Pain, D. D., L48
Palyanov, Yu. N., A91
Panchanathan, V., B46*
Pande, S. J., E43
Papanicolacu, N. A., P51*
Papi, P., P27
Parrish, J. B., R64
Pasteris, J. D., R72
Partida, C., F28*
Pate, B. B., A43
Patterson, J. A., L1*
Pelizza, S., M69
Pepper, S. V., A9
Pererozin, M. A., N4
Perlin, O. S., N37
Persson, A., A37, A38, A41
Pesin, V. A., A63
Peter, H., K11
Peterman, L. M., G1
Peters, J., F91
Petrenko, A. P., C5
Petrovic, J. J., P40
Petrusenko, V. S., H5
Phaal, C., C101*, C102*, L13*
Pinzari, M., M70
Pipkin, N. J., C78*
Pisareva, V. K., G52
Pizzagalli, F., N45*
Pleiger, H., G55*
Plichta, S., F95
Pluta, Z., N58
Pokladii, G. G., E56
Pöllmann, J., M8*, M61*
Pol'shakov, V. I., F130
Pompe, U., F93
Pope, N. C., L36*
Poplavskii, S. A., H5
Porat, P., B41
Portmann, F., E35
Portnov, A. M., R46
Powell, G. J., B37
Prekwinkel, H., D34, N9, N80
Primachuck, V. L., A49
Prins, J. F., P31, T7, T12
Pritschow, U., M1, M82
Production Engineering Research Association (PERA), (C36), (D39), (E44), (F32), (F33), (F34), (F77), (F78), (F79), (F152), (F153), (F154), (F155), (F156), (F157), (G4), (G30), (G31), (H1), (H2), (H5), (H6)
Prokopchuk, B. I., R54
Prolo, W., K13, K17
Ptachnikov, V. S., F129
Ptitsyna, L. D., N76
Putyatin, A. A., A21
Puybaraud, G. H., G10*, G62*
Pyzhov, I. N., F154

Q
Quinlan, J. C., C57

R
RWTH *see* **Technical High School of Aachen**
Radford, W. F., F39
Radtke, R. P., C43*, L48
Raeside, R. P., R4
Rakel, J. H., D25
Randall, K. B., E3, F55, F94
Raudies, J. H., A97
Ray, R., B27*, B46*
Redeker, W., E76*, F39, F72*
Reggiani, L., A76
Regler, D., C84*, N6*
Reiche, H., N23*, N32*, N64*
Reichlin, R. L., P58
Reinhold, R., C58, F50, F134
Reiter, J., G43*, G65*
Retelsdorf, H. -J., B45*, B98*
Revin, O. G., A55, A137
Rhoades, L. J., G47
Richerson, D. W., B59
Richter, G., G17*
Richter, M., M36*
Robertson, C., A45
Roc-Expo, 2nd, (M4)
Rocek, V., C6, D20
Rogers, D. S., L4
Rogov, V. V., N27, N81
Rosen, A., B14
Rothschild, G. L. S., T17
Rotner, S. M., A136
Rowley, D., L16*
Rowley, D. S., L22*
Roy, G., M47
Rozes, B., M50
Rozes, M., M19, M80
Rubino, A., M94
Ruf, G., F75*
Ruppert, V. J., P61*
Rutledge, S. K., A15
Rybalko, S. I., R50
Ryschkewitsch, M. G., P4
Ryzhov, E. V., F78, S7

S
SERC *see* **British Science & Engineering Research Council**
Sadao, Y., E39*
Safronov, A. F., R84
Sagarda, A. A., E52
Saito, K., F12
Saito, Y., F171
Sakuma, K., B95, C74, F22, F61, F138
Saljé, E., E21, E22, F63, F69, F99, F109, F124, G39, J5
Salmon, S. C., E51, F114
Samoilovitch, M. I., A70*
Samuels, L. E., G6
Sänger, K., D12
Sarin, V. K., B68*
Sato, K., F17, T24
Sato, T., A18, A94*
Sauerland, F. L., G41*
Sauren, J., E8, E9
Sauser, D., N13
Savvakin, G. I., A106
Sawacka, A., C77*
Sawicki, J. A., A103
Sawluk, W., E48*
Scheck, R., G37
Scherber, G., N38
Schiferl, D., P33
Schimitzek, G., N23*, N32*, N64*
Schinker, M. G., N30
Schleich, H., E31, E64, E65
Schlingensiepen, R., F31
Schlump, W., B9
Schmid, N., M62*
Schmidt, K., F66
Schölermann, U., N41
Schöpfel, T., M13
Schouten, J. A., P46
Schulze, (A10)
Schwämmle, J., E25
Scott, D., D5
Seal, M., P44
Sealey, M. J., N60*
Secretary of State for Defence, B24*
Secretary of State for Industry, UK, P63*
Segawa, K., P49*
Sekiya, S., C65*
Selekh, V. F., C5
Semerchan, A. A., T5, T13
Sentuko, E., B94
Serenko, V. P., R43
Setaka, N., A68*
Sexton, J. S., F76, F80
Shah, S., M65
Shakhnovskii, S. S., F79, F152, F157
Shank, W. E., E75*
Shatskii, V. S., R15
Shcherban, N. I., A47
Sheinberg, H., B31, B44*, B47*
Shen, Y., A105
Shetty, H. R., P11
Shilo, A. E., A88
Shimamoto, H., P30*
Shimamune, T., F106
Shimamura, T., F147
Shimizu, H., P9
Shimizu, M., F179*
Shinmura, T., E69
Shinozaki, N., F17
Shoji, K., F21
Shterenberg, L. E., A57, A64
Shuchkanova, T. G., C75
Shutov, B. S., R48
Siegfried, J., D21
Silvari, P., M6, M26, M55
Simakov, S. K., R13, R69
Simkin, E. S., A116
Sioui, R. H., F73*
Sivan, R., B99
Skinner, F. R., E61*
Skomorokhov, G. Ya., F156
Sladek, M., E32
Slatin, P. A., N53
Slesarev, V. N., A55, A137
Slouffman, J. E., F119
Smirnov, E. P., A93
Smirnov, Ye. P., A110, A139
Smith, B. H. S., R62
Smith, C. B., R82
Smith, M. B., N62*
Smith, R. L., F118
Smyth, K. K., B78
Sobolev, E. V., A14
Sobolev, N. V., R23
Sobolev, V. K., R52
Soboleva, N. V., F34
Soviet Standard GOST, (A22)
Sozin, Yu. I., A25, A86
Spear, P. M., A1, A2
Spodarenko, V. I., H6
Spur, G., F7
Stäheli, K., E71
Stanley, D., F2

Stark, C., F98
Stark, H., Q9*
Steere, R. H., N65*, N85*
Steffens, K., F70, F89
Streinmetz, K., D12
Sterba, L., L6
Stern, T. J., N66*
Stiebritz, W., K3*
Stokes, R. J., F81, F142
Stoll, M., M40*
Stone, B. J., F56
Strong, H. M., A131, T6*
Sunagawa, I., T24
Sunnen, R. M., G63*
Suto, T., F168
Suzuki, H., B8, B19, B20, B40, B89, B90, B91, B92, F164
Svyazkina, T., C42
Syoji, K., E54, E67
Szala, L. E., C15*, C45*, C53*, C63*
Szmidt, J., A101

T
Tado, T., C74, F22, F61
Takagi, K., B43*, B87*
Takatsu, S., C91
Takehara, H., P6*, P7*, P29*, P36*, P38*, P52*, P54*
Takubo, T., M12, N21*
Tamakohri, K., F165
Tamboia, V., E26*, E62*
Tamura, S., T22
Tanaka, K., B48*
Tanase, T., B12
Tani, H., B62*
Tani, Y., F20, F175, F177
Tanigawa, T., M98*
Taniguchi, N., D27, D42, N55, P15, S1, S4, S6
Tatarintsev, V. I., R78
Technical High School of Aachen (RWTH), (F112)
Technical University of Berlin, Institute for Machine Tools & Production Technology, (E5)
Teiwes, H., F63
Tereshchenko, I. G., (B33)
Terzago, F., M101*
Tetel'baum, D. I., A83
Thaler, S., M77*
Thomas, J. C., M24*
Thomas, P., M24*
Thoreau, B., M90
Thyssen, W., F110
Tigerstorm, L., F8
Tkhagapsoev, Kh. C., C7
Tomita, T., C29*
Tompkins, L. A., R8
Tönshoff, H. K., F5, M43
Tooe, S., F15, G12
Travin, V. V., N76
Treaster, J. L., F117
Tressler, R. E., B70
Tsakhnovskii, I. M., E57, F36, F83
Tsuji, K., C67*, C81*
Tsukuda, S., F139
Tsunasawa, Y., F19
Tuominen, S. M., B13
Turley, D. M., G6
Tusinski, J., N17*

U
Ueda, K., D11
Ueda, T, G7, G51
Uhlig, U., F72*
Ukhanov, A. V., R35, R70
Umino, K., E68
United States of America, Secretary of the Navy, D33*
University of Birmingham, (D17)
University of Hanover, Institute for Production Technology & Chip Removal Machine Tools, (E4), (F97), (F145), (F149), (M53)
University of Wisconsin, (E50)
Uryukov, B. A., J8
Usov, A. V., F42
Uvarov, V. G., E13
Uygui, E. M., B51
Uzunyan, M. D., F33

V
VNIIASh *see* **Vsesojuznyj N-I Institut Abrazivov i Shlifovanija**
Vaganov, V. I., R16
Valentine, T. J., F142
Van den Hul, A. -J., P20*
van Puttkamer, H., P42
van Wyk, J. A., A73
Vanderbilt, D., A44
Varlamov, V. A., R16
Vavilov, V. S., A113
Vennin, H. C., L15*
Veretennikov, E. A., F156
Verkerk, J., F10
Vermeulen, L. A., A5, A6
Verrill, J. F., D4
Verwoerd, W. S., A10
Vidali, G., A42
Vikulin, I. M., A132
Vishnevskii, A. S., A61
Vits, R., F92
Vlk, J., E40*
Voegtli, W., F29*
Vogl, (A11)
Volk, J. F., E27*
Voronin, G. A., A85
Vsesojuznyj Nauchno- Issledovatelskij Institut Abrazivov i Shlifovanija (VNIIASh), A130*

W
Wada, Y., P39*
Wahlen, A., F84
Watanabe, J., N59
Watanabe, M., C46*
Weaver, G. Q., B30*
Weck, M., E34
Weglein, R. D., P59
Weissman, I., Q2*
Weissner, H., M38*
Welch, R., L5
Werner, P. G., E29, F6, F9, F31
Whalley, E., P34
Whitehouse, D. J., P1
Widmer, E., C4, E12, F140, F141, F158, F159, F160, F161, F162
Wiemann, H. J., M29
Wiendl, J., F60
Wiener, D., E16*, E38*
Wiesner, C., N42
Wijers, J. L. C., K16, S5
Wilks, J., A119, F86
Williamson, K. E., L57*
Wimmer, J. M., B59
Winkler, H., B82
Winter, H. -J., P37*
Wire Exhibition, Basle, (G14), (K8)
'Wire 82', 8th International Wire Exhibition, (K1)
Wirz, G., N48*
Wisconsin University, (E50)
Wood, J. E. G., P63*
Woods, G. S., A34
Woynovski, J., E40*
Wright, J. D., F68
Wu, S. M., F116
Wuest, U., E41*
Wüstholz, W. D., N56

Y
Yakomov, A. V., E44
Yamamoto, A., F107, G7, G51
Yamamoto, S., P16
Yamamoto, T., B76
Yang, H. H., F57
Yano, A., F173
Yarnitzki, L., Q3*
Yascheritsyn, P. I., F77
Yasui, H., F139, F144
Yazu, S., C10*, C28*, C56*, C73*, C76*, K6*, K18*
Yefimova, E. S., R20
Yegorov, K. N., R11
Yevdokimov, A. N., R19
Yin, M. T., A118
Yohe, W. C., B69*
Yoshikawa, M., T19
Yoshioka, J., F151
Younis, M. A., F23
Yur'eva, O. P., A14

Z
Zadneprovskii, B. I., A58
Zaitsev, A. G., C93, F40
Zakharenko, I. P., F130
Zashu, S., R5
Zelez, J., A17
Zhdanov, N. I., E53
Zhdanovich, G. M., C33*, C85*, C89*, C104*
Zhu, X. H., C22
Zimmer, W. F., C100*
Zimmerman, F. X., B39
Zin'chuk, N. N., R45, R83
Zisman, A. N., T8
Zor'kin, L. M., R53

IDA TRADE NAME & COMPANY INDEX

A
ABN, (C61), (F133), (F142)
ABN615, (C61), (F133)
Abrasives International NV, C27*
Adamant Kogyo Co Ltd, P7*
Advanced Technology Inc, C16*
Aebi AG Baumaschinen, Robert, (M95)
AIT Industries Inc, N66*
Allerton Press Inc, (A108), (B84), (C60), (F82), (F83), (F87), (F96), (G33), (L49), (N37)
AMBORITE, (A107), (D6), (D12), (D15), (D18), (D28), (D29), (D30), (D32), (D41)
American Optical Corp, N8*
Angleco Ltd, (J4)
Applications Industrielles du Diamant STI Triefus France, M20*
Applied Coatings International Inc, A95*, A96*
Asahi Diamond Industrial Co Ltd, M98*, N70*, N71*, N72*
Atelier-Juwel Georg Bunz, Q5*
Ausgarten, Porzellanmanufaktur, (N2)
Automobiles Citroen, G10*, G15*, G19*, G54*, G62*
Automobiles Peugeot, G10*, G15*, G19*, G54*, G62*

B
Bando Kiko Co Ltd, N18*
Benteler-Werk AG, N84*
Berthold Sondermaschinenbau, (N15)
BEWAG, (M49)
Biebuyck Company, (N50)
Biedron KG, BSB, M76*
BL Cars Ltd, (D17)
Boart International Ltd, C17*, E59*, L36*, L45*
Brammall Inc, G24*
BSB Biedron KG, M76*
BUNKEPOWER, (M68)
Bunz, Atelier-Juwel Georg, Q5*
Bureau de Recherches Géologiques et Minières, G42*

C
CSO *see* Central Selling Organisation; De Beers Central Selling Organisation
Calumet Abrasives, (C57)
Central Selling Organisation (CSO), (T17)
CETIM, (F11)

CHALAND, (M34)
Chase Diamond Tools Ltd, D14*
CHRISTENSEN, (L27)
Christensen Inc, L2*, L13*, L14*, L16*, L22*, L26*, L32*, L33*, L37*, L38*, L39*, L58*
Citizen Watch Co Ltd, F179*
Citroen, Automobiles, G10*, G15*, C19*, G54, (G56), G62*
CLIPPER, (M89)
Coburn Optical Industries Inc, N17*
Commissariat à l'Energie Atomique, T9*
Constructions de Clichy, F25*
Coopervision (UK) Ltd, N60*
Crystal Systems Inc, M62*

D

Daimler-Benz AG, G43*, G65)*
DE BEERS, (L31), (M5), (M33), (R60), (R61), (R62), (R72), (T17), (V1)
DE BEERS ABN, (C61), (F133), (F142)
DE BEERS ABN615, (C61), (F133)
DE BEERS AMBORITE, (A107), (D6), (D12), (D15), (D18), (D28), (D29), (D30), (D32), (D41)
De Beers Botswana Mining Company (Pty) Ltd, (R9)
De Beers Central Selling Organisation, (T17)
De Beers Industrial Diamond Division (Pty) Ltd, A29*, C83*, C101*, C102*, (D18), (F81), P64*, R58*, V1
Technical Service Centre, (M30), (M31)
DE BEERS SYNDIE, (K10), (K14)
DE BEERS SYNDITE, (D26), (D34), (D37), (D38), (D41), (M81), (N1), (N9), (N80)
DE BEERS SYNDITE PLUS, (D19)
DE BEERS SYNDRILL, (M81)
De Beers Technical Service Centre, (M30), (M31)
DEBID *see* De Beers Industrial Diamond Division (Pty) Ltd
Dendia-Werk Dr. Ing. Hans O. Scheid GmbH, N47
Deutsche ITT Industries GmbH, N24*
DeVlieg Microbore (Herbert-Milan), (F125)
Diamagnetics Inc, P8*
Diamant Boart SA, M14, (M90)
Diamantgesellschaft Tesch GmbH, (F46)
Diamond Giken Co Ltd, C72*, N63*
Diamond SA, C30*
DIAMONDMASTER, (T11)
Diamond Pauber Srl, C68*
DIAPOL, (N79)
DICAMAT, (K4)
Disco Abrasives Ltd, N46*
Disco Co Ltd, C65*
Dormer Tools, (F3)
Dresser Industries Inc, L3*, L24*
Drilling & Service UK Ltd, (L8), L23*, L34*
DTH—Diamantwerkzeuge GmbH, (M68)
DUPONT TEFLON, (C1)

E

Eder GmbH, Siegfried, (K4), (K9)
Engineering Diamonds Ltd, (D26)
Engis Corporation, C70*, (G32)
ENGLISH DRILLING HYDRABORE, (L55)
Essilor International, N61*
Ets. Thomas, M24*
EWAG AG, (F111)
Ex-Cell-O Corp, G66*

F

Flachglas AG, N67*, N68*
Ford Motor Co, N20*
FOUR—FLEX filer, (F45)
Friedl & Co, E., (N53)
Frischmut & Freitag Diamantwerkzeuge GmbH, (M91)
Führer & Bachmann AG, (M84)
Fuji Kuuki KK, F180*
Fukuda Metal Foil & Powder Company, B48*
Furukawa Electric Co Ltd, B67*

G

Gauthier GmbH, Prontor-Werk Alfred, N23*, N32*
Gehring GmbH & Co KG, Maschinenfabrik, G17*, G18*, G28*, G61*
General Electric Company, B49*, B69*, C13*, C14*, C15*, C25*, C32*, C44*, C45*, C48*, C51*, C53*, C63*, C69*, C71*, C79*, C80*, C99*, E61*, K2*, L25*, M60*, T6*
Georgian Crystal Ltd, (N75)
Gildemeister-DeVlieg, (F125)
GMN Georg Mueller Nuernberg GmbH, N83*
Gockel GmbH, Gustav, (F64)
Great Lakes Carbon Corp, B28*
GRINDO—SONIC, (F48), (F108)
GTE Laboratories Inc, B68*
Guilleaume Werke W. & Dr. Ing. A. Guilleaume GmbH & Co KG, C105*

H

Hargem Ltd, Q2*, Q9*
Hauni-Werke Körber & Co KG, E37*, E46*, E76*, F72*
Heliotronic Forschungs- und Entwicklungsgesellschaft für Solarzellen-Grundstoffe mbH, C84*
Henke Maschinenfabrik GmbH & Co KG, M62*
Hilti AG, M9*, M36*
Hoyne Industries Inc, N35*
HYDRABORE, (L55)
Hydrostress AG, (M88)

I

Inoue-Japax Research Inc, C19*, C34*
Interface Developments Ltd, N16*
International Carbide Data, (B6)
Isotech GmbH, (M1)
ITALMONT, (M2)

J

JOINTMASTER, (M48)
Jones & Shipman Ltd, A. A., G27*
Jones & Shipman plc, G25*, G40*

K

KADIA –Diamant-Maschinen- und Werkzeugfabrik O. Kopp GmbH & Co, C106*, (D57), (GB), G16*, G29*, G44*, C54*
Kapp & Co Werkzeugmaschinenfabrik, C11*, C12*, C87*, C88*
Klink GmbH, Arthur, F75*
König GmbH & Co, J., M40*
Körber & Co KG, Hauni-Werke, E37*, E46, E76*, F72*
Koken Co Ltd, N44*
Kopp GmbH & Co, KADIA-Diamant Maschinen- und Werkzeugfabrik O., C54*, C106*, (D57), (GB), G16*, G29*, G44*
Korfmann GmBH, Maschinenfabrik, M38*, M59*
Krupp GmbH, Fried., B85*

L

Lach-Spezial-Werkzeuge GmbH, F30*, F54*, F148*, M37*, M102*
Lazare Kaplan & Sons Inc, T16*
Leitz Wetzlar GmbH, Ernest, P22*
LENZE, (F174)
Les Fabriques d'Assortiments Réunies SA, N45*
Licentia Patent-Verwaltungs GmbH, P35*
Litton Industrial Products Inc, E75*
Löffler Maschinenbau GmbH, M75*
LUCHESI CARINS, (D10)

M

Maag Gear Wheel & Machine Co, E60*
Maag-Zahnräder- und Maschinen AG, E17*, E41*, E42*
McDonnell Douglas Corp, F53*
McGlashen Ltd, Stewart, (M11)
Maegerle AG, Gebr., E40*
MAGNESTA, (M12)
MAM, (M34)
Marko Materials Inc, B27*, B46*
Martin Marietta Corp, P51*
Maschinenfabrik Ernst Thielenhaus, (N38)
Maschinenfabrik Gehring GmbH & Co KG, G17*, G18*, G28*, G61*
Maschinenfabrik Korfmann GmbH, M38*, M59*
Maurer Engineering Inc, L35*
Metallurg Inc, B45*, B97*
Meyer, Steinbearbeitung-Maschinenfabrik Carl, M8*, M61*
Mitsui Mining & Smelting Co, C26*
Mueller Nuernberg GmbH, GMN Georg, N83*

N

Namiki Precision Jewel Co Ltd, P30*
NGK Spark Plug Co Ltd, C46*
Nicco Machine Tool Co Ltd, C18*, C107*
Nippon Oil & Fats Co Ltd, C77*
Nippon Thompson Co Ltd, E39*
Nippon Victor KK, P6*
NL Industries Inc, C43*
NORDIAX, (M18), (M25), (M54)
NORTON, (M85)
NORTON CLIPPER, (M89)
Norton Co, B30*, C31*, C47*, C49*, C64*, C86*, C100*, F73*, M58*
Norton Construction Products, (M79)
NORTON NORDIAX, (M18), (M25), (M54)
NV Optische Industrie 'De Oude Delfte', P21*

O

OPTIDRESS, (E63)
Optische Industrie 'De Oude Delfte', NV, P21*
Osaka Diamond Industrial Co Ltd, C52*, E74*, (F125)
Osaka Seiki KK, G26*

P

Patent-Treuhand-Gesellschaft für elektrische Glühlampen mbH, K3*
Pelligrini Meccanica, (M34)
Peugeot, Automobiles, G10*, G15*, G54*, G62*
Pfeiffer, Gebr., (D29)
PG OPTIDRESS, (E63)
PIX-Pentronix Inc, G53*
PLASTIDIA, (M52)
Pleiger KG Maschinen- und Armaturenfabrik, Emil, G55*
Pötting Ingenieurbüro GmbH & Co, Walter, N25*
Pons & Contamessa SpA, E26*, E62*
Porzellanmanufaktur Ausgarten, (N2)
Pratt & Whitney Aircraft, (F2)
PRECIDIA, (M52)
Prontor-Werk Alfred Gauthier GmbH, N23*, N32*

R

Rank Taylor Hobson, (P5)
RCA Corp, C98*, F27*, P17*, P18*, P19*, P23*, P28*, P35*, P47*, P48*, P50*, P53*, P54*, P56*, P57*, P61*, P62*, P65*
Régie Nationale des Usines Renault, F28*
Rocamat SA, M100*

S

Sack Glastechnik GmbH, N33*, N73*, N86*
Scheid GmbH, Dendia Werk Dr. Ing. Hans O., N47*
Seiko Seiki KK, F113*
Showa Denko KK, B26*
Silicon Technology Corp, N36*, N65*, N85*
Simon, Dieter, (G14), (K8)
Smith International Inc, L10*
Spiroll International Ltd, (D28)
Steinbearbeitung-Maschinenfabrik Carl Meyer, M8*, M51*
Sumitomo Electric Industries Ltd, C10*, C21*, C28*, C50*, C55*, C56*, C67*, C73*, C81*, C82*, K6*, K18*
Sun Exploration and Production, Texas Sun Gas Division, (L46)
Sunnen Products Co, G11, G63*
Super-Cut Inc, F74*
SYALON, (B22), (B66)
SYNDIE, (K10), (K14)
SYNDITE, (D26), (D37), (D38), (D41), (M81), (N1)
SYNDITE PCD, (D34), (N9), (N80)
SYNDITE PLUS PCD, (D19)
SYNDRILL, (M81)

T

TDC-Technology Development Corp, B25*
Technical Service Centre, De Beers Industrial Diamond Division (Pty) Ltd, (M30), (M31)
TEFLON, (C1)
Teledíam Electronic, (M67)
Terzago SpA, M101*
Tesch GmbH, Diamantgesellschaft, (F46)
Texas Sun Gas Division, Sun Exploration & Production, (L46)

Thielenhaus, Maschinenfabrik Ernst, (N38)
Thomas, Ets., M24*
Thyssen Edelstahlwerke AG, B86*
Timex Corporation, (D26)
Tormek, F26*
Toyo Kohan Co Ltd, B43*, B87*
Toyo Shibaura Denki KK, C62*
Toyoda Koki KK, C29*
Transat Corp, G41*
Triefus France, Applications Industrielles du Diamant STI, M20*
Triplet SA, (E35)
Tyrolit Schleifmittelwerke Swarovski KG, E20*, E28, M39*, M74*, M77*

U
Unicorn Industries Plc, L9*
United States Department of Energy, B44*, B47*
US Philips Corp, K12*
Utita SpA, F71*

V
Van Moppes-IDP Ltd, (F3)
Van Voorden, (M28)
VEB Werkzeugmaschinenkombinat '7 Oktober' Berlin, E73*, F181*
Victor Co of Japan Ltd, P7*, P29*, P36*, P38*, P39*, P49*, P52*, P54*
VMEI Lenin, C20*
Voskov Cutting Tool Factory, (D7)

W
Wacker Chemitronic Gesellschaft für Elektronik-Grundstoffe mbH, N69*
Warner & Swasey Co, The, E27*
Weldon Hydraulics Inc, E14*
Werkzeugmaschinenfabrik Kapp & Co, C87*, C88*
Werkzeugmaschinenkombinat '7 Oktober' Berlin, VEB, E73*, F181*
Wernicke & Co GmbH, N5*
Willemin-Macodel SA, (F84)
Winter & Sohn (GmbH & Co), Ernst, E48*, E49*, N7*
Wirtz GmbH & Co, Jean, (N79)
Wolters, Peter, G9*, G20*, G64*

Z
ZORZAN, (M34)

KEY TO ABSTRACTS

PROPERTIES OF DIAMOND AND CUBIC BORON NITRIDE

	Nos.	Pages		
A	1- 31	45- 48	1/84	No. 500
A	32- 70	97-101	2/84	No. 501
A	71- 96	163-166	3/84	No. 502
A	97-117	219-221	4/84	No. 503
A	118-130	281-282	5/84	No. 504
A	131-143	341-342	6/84	No. 505

PROPERTIES OF OTHER HARD MATERIALS

	Nos.	Pages		
B	1- 30	48- 51	1/84	No. 500
B	31- 49	101-102	2/84	No. 501
B	50- 69	166-168	3/84	No. 502
B	70- 87	221-223	4/84	No. 503
B	88- 98	282-283	5/84	No. 504
B	99-108	342-343	6/84	No. 505

TOOLMAKING TECHNIQUES

	Nos.	Pages		
C	1- 21	51- 53	1/84	No. 500
C	22- 34	103-104	2/84	No. 501
C	35- 56	168-170	3/84	No. 502
C	57- 73	223-225	4/84	No. 503
C	74- 89	283-285	5/84	No. 504
C	90-107	343-345	6/84	No. 505

CUTTING TOOL APPLICATIONS

	Nos.	Pages		
D	1- 7	53- 54	1/84	No. 500
D	8- 14	104-105	2/84	No. 501
D	15- 24	170-171	3/84	No. 502
D	25- 27	225-226	4/84	No. 503
D	28- 33	285-286	5/84	No. 504
D	34- 42	345-346	6/84	No. 505

TRUING AND DRESSING

	Nos.	Pages		
E	1- 20	54- 56	1/84	No. 500
E	21- 28	105-106	2/84	No. 501
E	29- 42	171-172	3/84	No. 502
E	43- 49	226-227	4/84	No. 503
E	50- 62	286-287	5/84	No. 504
E	63- 76	346-348	6/84	No. 505

GRINDING

	Nos.	Pages		
F	1- 30	56- 59	1/84	No. 500
F	31- 54	106-108	2/84	No. 501
F	55- 75	172-175	3/84	No. 502
F	76-113	227-230	4/84	No. 503
F	114-148	287-290	5/84	No. 504
F	149-181	348-351	6/84	No. 505

LAPPING, HONING AND POLISHING

	Nos.	Pages		
G	1- 11	60- 61	1/84	No. 500
G	12- 20	108-109	2/84	No. 501
G	21- 29	175-176	3/84	No. 502
G	30- 45	230-232	4/84	No. 503
G	46- 55	290-291	5/84	No. 504
G	56- 66	351-353	6/84	No. 505

ELECTROLYTIC GRINDING

	Nos.	Pages		
H	1	61	1/84	No. 500
H	2	109	2/84	No. 501
H	3	176	3/84	No. 502
H	4	232	4/84	No. 503
H	5	291	5/84	No. 504
H	6	353	6/84	No. 505

PROCESSING, GRADING AND QUALITY CONTROL OF ABRASIVE PARTICLES

	Nos.	Pages		
J	1	61	1/84	No. 500
J	2- 3	109	2/84	No. 501
J	4- 5	176	3/84	No. 502
J	6	232	4/84	No. 503
J	7- 8	291	5/84	No. 504
J	9- 11	353	6/84	No. 505

WIRE DRAWING

	Nos.	Pages		
K	1- 3	61	1/84	No. 500
K	4- 6	109-110	2/84	No. 501
K	7- 9	176-177	3/84	No. 502
K	10- 12	232	4/84	No. 503
K	13- 14	291-292	5/84	No. 504
K	15- 18	353-354	6/84	No. 505

ROCK DRILLING

	Nos.	Pages		
L	1- 3	61- 62	1/84	No. 500
L	4- 16	110-111	2/84	No. 501
L	17- 26	177-178	3/84	No. 502
L	27- 39	232-234	4/84	No. 503
L	40- 45	292	5/84	No. 504
L	46- 58	354-355	6/84	No. 505

MACHINING OF STONE, CONCRETE, ETC.

	Nos.	Pages		
M	1- 9	62- 63	1/84	No. 500
M	10- 24	111-113	2/84	No. 501
M	25- 42	178-180	3/84	No. 502
M	43- 62	234-236	4/84	No. 503
M	63- 77	292-294	5/84	No. 504
M	78-102	355-358	6/84	No. 505

MACHINING OF GLASS, CERAMICS, ETC.

	Nos.	Pages		
N	1- 8	63- 64	1/84	No. 500
N	9- 25	113-115	2/84	No. 501
N	26- 36	180-182	3/84	No. 502
N	37- 48	236-238	4/84	No. 503
N	49- 73	294-298	5/84	No. 504
N	74- 86	358-359	6/84	No. 505

NON-CUTTING APPLICATIONS & MEASUREMENT TECHNOLOGY

	Nos.	Pages		
P	1- 8	64	1/84	No. 500
P	9- 23	115-111	2/84	No. 501
P	24- 30	182	3/84	No. 502
P	31- 39	238-239	4/84	No. 503
P	40- 57	298-300	5/84	No. 504
P	58- 65	359-360	6/84	No. 505

GEM WORKING

	Nos.	Pages		
Q	1- 3	64- 65	1/84	No. 500
Q	4	183	3/84	No. 502
Q	5	239	4/84	No. 503
Q	6- 8	300-301	5/84	No. 504
Q	9	360	6/84	No. 505

GEOLOGY AND MINING

	Nos.	Pages		
R	1- 8	65- 66	1/84	No. 500
R	9- 24	117	2/84	No. 501
R	25- 41	183-184	3/84	No. 502
R	42- 58	239-240	4/84	No. 503
R	59- 71	301-302	5/84	No. 504
R	72- 84	360-362	6/84	No. 505

MACHINING PROCESSES & DEVELOPMENTS

	Nos.	Pages		
S	1	66	1/84	No. 500
S	2	118	2/84	No. 501
S	3	184	3/84	No. 502
S	4	302	5/84	No. 504
S	5- 7	362	6/84	No. 505

MISCELLANEOUS

	Nos.	Pages		
T	1- 6	66	1/84	No. 500
T	7- 9	118	2/84	No. 501
T	10- 16	184	3/84	No. 502
T	17- 18	240	4/84	No. 503
T	19- 23	302	5/84	No. 504
T	24	362	6/84	No. 505

BOOK NOTICES

	Nos.	Pages		
V	1	118	2/84	No. 501
V	2	302	5/84	No. 504

PATENT LISTS

Pages			
66- 67	1/84	No. 500
118-119	2/84	No. 501
185	3/84	No. 502
241	4/84	No. 503
303	5/84	No. 504
362-363	6/84	No. 505

Printed by KENION PRESS LTD *Slough Berks*